

B-360-5-73  
May 10, 2006

U.S. Tsubaki Corporation  
301 East Marquardt Drive  
Wheeling, Illinois 60090

Attn: Mr. Eddie Teng

Re Addendum Letter Report  
Environmental Site Investigation  
222 Bowen Road  
Bennington, Vermont  
SMS# 2004-3196

Dear Mr. Teng:

Tighe & Bond has completed the Addendum Phase II Environmental Site Investigation activities for the property and structure located at 222 Bowen Road (Parcel ID 45-01-78-00), located in the town of Bennington, Bennington County, Vermont. For reference, a Site Locus Map (Figure 1), Base Plan (GIS) (Figure 2), Aerial Map (Figure 3) and Site Plan (Figure 4) are included in Appendix A.

A Phase I Site Assessment Update/ Phase II Site Investigation Report was submitted to Vermont Department of Environmental Conservation (DEC) on March 14, 2006. Initial site investigation activities included the installation of three additional groundwater monitoring wells in the facility interior, the advancement of seven additional soil borings, screening of subsurface soils, and soil, surface water, sediment and groundwater sampling and laboratory analysis. These activities were performed in general accordance with the revised *Work Plan* submitted to the Vermont Department of Environmental Conservation (DEC) on January 6, 2006 and also incorporated comments submitted by DEC in correspondence dated January 27, 2006 regarding the Work Plan. The report was based on the findings of site investigation activities conducted at this site between December 2005 and March 2006.

On April 7, 2006, VT DEC issued a comment letter, following review of the March 2006 Phase I/ Phase II report. Based on this correspondence and a subsequent telephone conversation with DEC personnel on April 11, 2006, the following supplementary site assessment activities were required by DEC and conducted by Tighe & Bond at 222 Bowen Road:

Two additional subsurface soil samples (B-3R and B-6R) were collected on April 14, 2006, at a depth of 0.0 to 0.5 feet below grade (and below the concrete slab) in the facility interior. These additional soil sample locations were selected based upon the highest TPH soil screening results reported on February 9, 2006, which were >2,000 ppm (sample B-3, 0 to 5 feet below grade) and 1,639 ppm (B-6, 0 to 5 feet below grade). Sample B-3R was collected approximately six inches to the west of the soil boring B-3 location. Sample B-6R was

collected approximately six inches to the left of soil boring B-6 location. A concrete drill was used to core through the concrete slab to gain access to the sub-slab soils. Following soil sample collection, concrete patch was used to patch holes in these two locations. These soil samples were submitted to Severn Trent Laboratory (STL) in Westfield, Massachusetts for analysis of volatile organic compounds (VOCs, EPA Method 8260B) and semi-volatile organic compounds (SVOCs, EPA Method 8270C). A summary of soil analytical results is included in Table 1A (Addendum) and Table 1B (Addendum) in Appendix B. Laboratory analytical results are included in Appendix C.

- Two additional sediment samples (SED-3 and SED-4) were collected on April 14, 2006 in the same approximate locations as sediment samples collected on February 16, 2006. SED-3 was collected near the trench drain outfall located on the southwest portion of the 222 Bowen Road property, west of the loading dock driveway. SED-4 was collected near the outfall located north of Transformer 1, at the northwest corner of the former U.S. Tsubaki manufacturing facility. These samples were re-collected for SVOC analysis because Alpha Analytical Laboratory was unable to complete analysis of the samples previously collected on February 16, 2006 (see Section 7.1 in March 2006 SIR). These sediment samples were submitted to Severn Trent Laboratory (STL) in Westfield, Massachusetts for analysis of SVOCs, EPA Method 8270C. A summary of sediment analytical results is included in Table 4B (Addendum) in Appendix B. Laboratory analytical results are included in Appendix C.
- Two surficial soil samples (Background-1 and Background-2) were collected from the wooded area on the west side of the unnamed stream, located along the west side of the property. These two soil samples were submitted to STL for analysis of arsenic (EPA Method 6020), in order to assess background concentrations of arsenic in soils near the property. A summary of these analytical results is included in Table 1A in Appendix B. Laboratory analytical results are included in Appendix C.

We highlight the following findings from the April 2006 addendum site investigation activities:

- Positive concentrations of xylenes were detected in sub-slab soil samples B-3R and B-6R, but at levels well below the applicable PRGs. No other VOCs were detected above laboratory method detection limits.

Positive concentrations of Bis (2-ethylhexyl) phthalate were detected in sub-slab soils in B-3R (840 ug/kg) and B-6R (790 ug/kg), but at concentrations well below the applicable PRGs. No other SVOCs were detected above laboratory method detection limits.

- Eight SVOC (polynuclear aromatic hydrocarbon, PAH) compounds were positively detected in both the SED-3 and SED-4 samples. All eight compounds were detected at higher concentrations in SED-3 (trench drain outfall location) than in SED-4. The eight compounds detected in both sediment samples included fluoranthene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, phenanthrene and pyrene.

Additionally, positive concentrations of Bis (2-ethylhexyl) phthalate and Indeno (1,2,3-cd) pyrene were detected in sample SED-3. It should be noted that Ontario Sediment Quality Guidelines have not been developed for SVOCs. Positive detections of SVOC compounds were compared to the EPA Region 9 PRGs in order to assess potential risks to human health. Benzo(a)pyrene concentrations in SED-3 exceed the Residential and Industrial PRGs. Benzo(a)pyrene concentrations in SED-4 exceed the Residential and Industrial PRGs. Benzo(b)fluoranthene concentrations in SED-3 and SED-4 exceed the Residential PRG. Indeno (1,2,3-cd) pyrene concentrations in SED-3 exceed the Residential PRG.

The detected PAHs in sediment are consistent with those typically found in urban runoff. Additionally, past discharges through floor drains could also be a source of the PAHs. Removal of the affected sediment, via excavation, is one possible corrective action to address the issue. However, given the sensitive nature of the aquatic resource, one could argue that excavation would cause as much harm as good. Further, without addressing the source(s) of the PAHs, stream sediments are likely to be re-contaminated. Therefore, Tighe & Bond recommends that the following be implemented at the property:

- Depending upon the future use of the building on the 222 Bowen Road property, it is recommended that the potential purchaser consider closing/plugging the trench drain, in accordance with applicable Vermont DEC Stormwater Management program requirements.
- Depending upon the future use of the building on the 222 Bowen Road property, it is recommended that the potential purchaser consider regularly maintaining the catch basin. This maintenance should include monthly vacouting of the catch basin to remove accumulated sediment and debris.

Implementation of these recommendations will minimize pollutants entering the stream through the catch basin system.

- Our March 2006 SIR indicated that arsenic was detected in soil samples collected from the ground surface to depths of approximately ten feet below surface grade at concentrations ranging between 1.4 mg/kg in the subsurface soils sample identified as B-6(5'-10') and 2.5 mg/kg in the subsurface soil sample identified as MW-2(IB)(0'-5'). Five of these concentrations exceed the EPA Region 9 PRGs for residential soils, while B-3(0'-5'), MW-2(IB)(0'-5') and B-5(0'-5') arsenic concentrations exceed EPA Region 9 PRGs for industrial soils.

According to U.S. Geological Survey Professional Paper 1648, *Geochemical Landscapes of the Coterminous United States – New Map Presentations for 22 Elements* (2001), a geochemical map of Vermont indicates that arsenic is present in soils ranging between 3.1 and 6.3 in the region of Bennington, Vermont. During the advancement of soil borings at the site, no evidence of other potential arsenic sources such as urban fill was noted. Given the

geochemical dispersion pattern of arsenic indicated in the map, it was our opinion in that report that the concentrations of arsenic detected in site soils is consistent with typical naturally occurring arsenic levels in Vermont soils.

Positive concentrations of arsenic were detected in the background surficial soil samples (Background-1, 1.8 mg/Kg) (Background-2, 1.0 mg/kg) collected on February 16, 2006 at concentrations that exceed the applicable EPA Region 9 Residential PRG (0.39 mg/Kg). Additionally, arsenic detected in Background-1 also exceeded the EPA Region 9 Industrial PRG (1.6 mg/kg). The highest background detection of arsenic (Background-1) was greater than the arsenic concentrations detected in two (B-4 and B-6) of the five previously collected subsurface soil samples. Consequently, it is our opinion that arsenic concentrations observed in US Tsubaki site soils are consistent with naturally occurring background levels.

- The March 2006 SIR (page 8-2) included a discussion regarding MDLs for VOC compounds in groundwater at the property. Several VOC compounds had MDLs at or above the VGES. These compounds are not expected to be present in groundwater, based on previous site use and a review of Material Safety Data Sheets (MSDS) for materials previously used as part of the manufacturing process at 222 Bowen Road.
- It should be noted that conversion errors for the Groundwater Quality Standards for silver and zinc were included in the March 2006 SIR Table 2A Groundwater Analytical Results. A revised Table 2A is included in Appendix B of this report. Our March 2006 SIR reported that zinc was detected in site groundwater in concentrations that exceed Vermont ES and PAL standards. Based on the revised calculations, positive concentrations of zinc were **not** detected in groundwater samples at concentrations exceeding the VT GES.

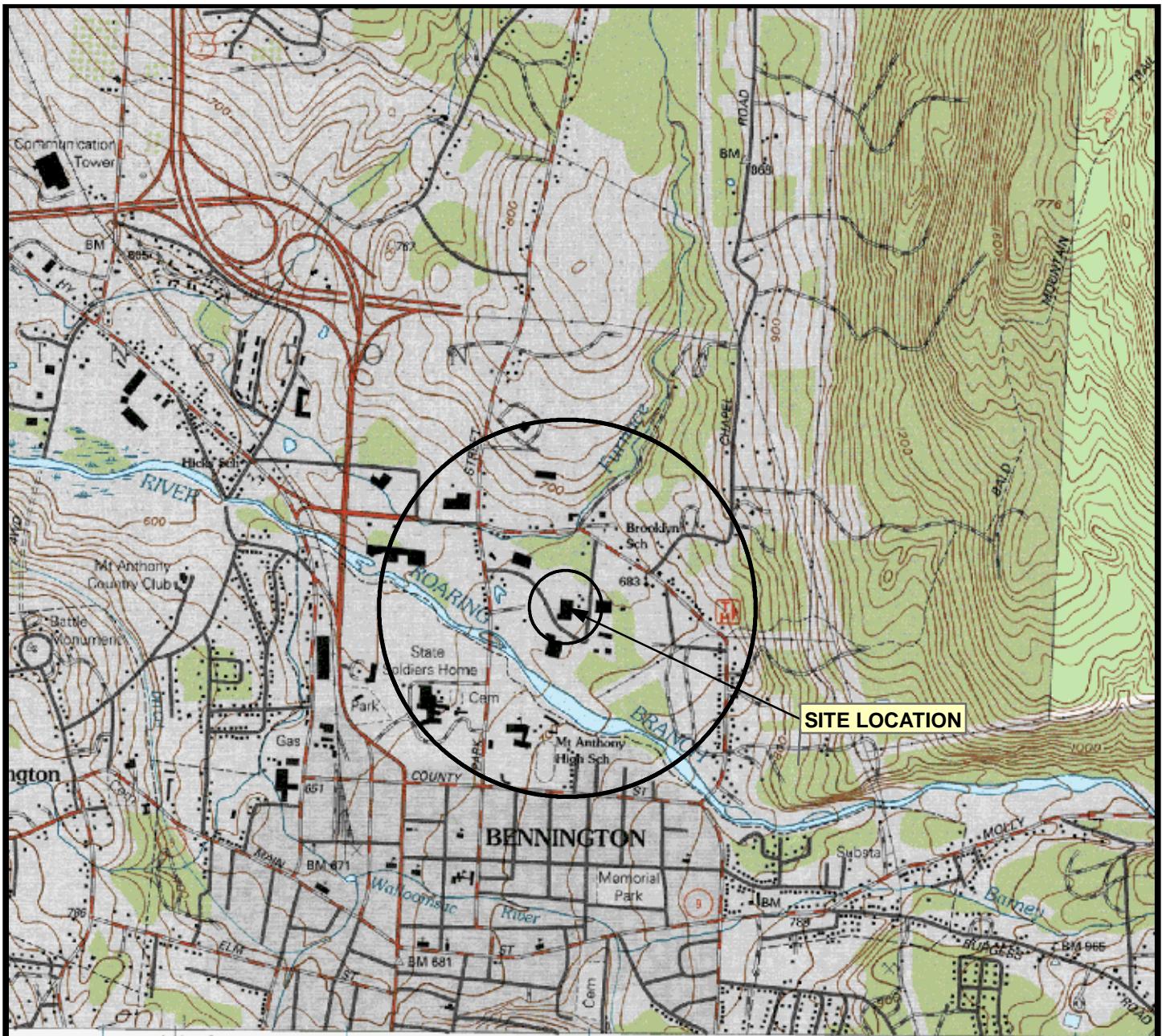
We appreciate the opportunity to work with you on this project. If you have any questions or comments regarding the contents of this letter report, please contact me at 413-572-3254.

Very truly yours,

TIGHE & BOND, INC.



Paul G. Beaulieu, PWS, LSP  
Manager of Environmental Services, MA/VT



CIRCLES INDICATE 500-FOOT AND 1/2-MILE RADII

BASED ON USGS TOPOGRAPHIC MAPS FOR  
BENNINGTON & POWNAL VT  
REVISED 1997  
NORTH POWNAL, HOOSICK FALLS NY-VT  
QUADRANGLES REVISED 1995  
20-FOOT CONTOURS



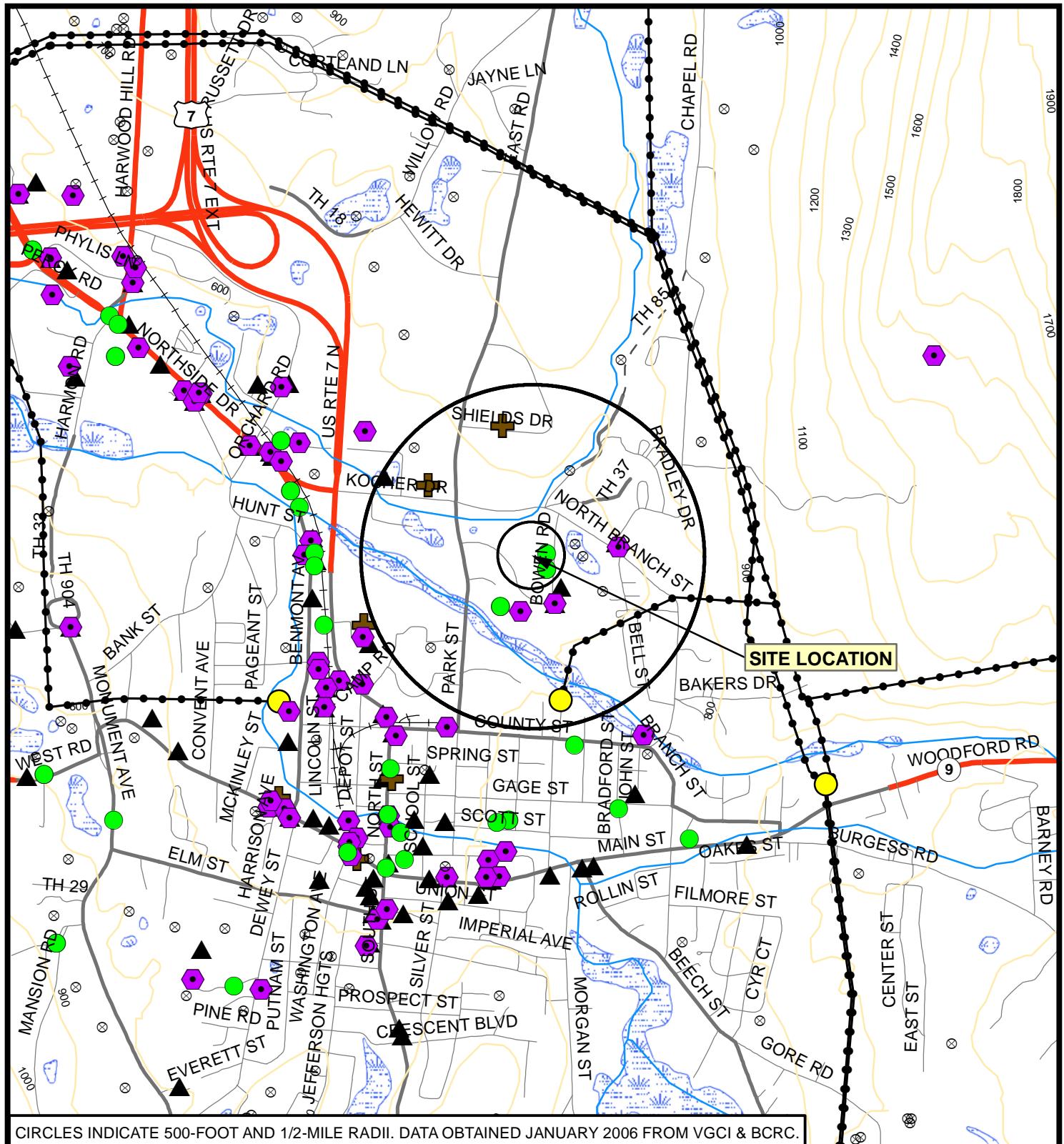
## FIGURE 1 SITE LOCUS

US TSUBAKI  
222 BOWEN ROAD  
BENNINGTON, VERMONT

**Tighe&Bond**

SCALE 1:25,000

FEBRUARY 2006



#### Legend

- ⊗ Private Well (VTANR)
- ⊕ Hazardous Wastes Generator (VTDEC & USEPA)
- PURPLE HIGHLIGHTED FACILITY: U.S. EPA Regulated Facility
- GREEN HIGHLIGHTED SITE: Hazardous Waste Site (VTANR)
- BLACK TRIANGLE: Underground Storage Tank (VTANR)
- RED LINE: Solid Waste Site (BCRC)
- YELLOW CIRCLE: Utility Substation
- POWER LINE: Power Line
- RAILROAD: Railroad
- 100 ft CONTOUR: 100 ft Contour
- RARE THREATENED & ENDANGERED SPECIES & SIGNIFICANT COMMUNITIES: Rare Threatened & Endangered Species & Significant Communities
- STREAM OR RIVER: Stream or River
- LIMITED ACCESS HIGHWAY: Limited Access Highway
- MULTI-LANE HIGHWAY, NOT LIMITED ACCESS: Multi-Lane Highway, NOT Limited Access
- OTHER NUMBERED HIGHWAY: Other Numbered Highway
- MAJOR ROAD - CONNECTOR, 1: Major Road - Connector, 1
- MINOR STREET OR ROAD: Minor Street or Road
- TRACK OR TRAIL: Track or Trail
- LAKE: Lake
- BASIN BOUNDARY: Basin Boundary
- WETLAND: Wetland
- TOWN BOUNDARY: Town Boundary



**FIGURE 2  
BASE PLAN**

US TSUBAKI  
222 BOWEN ROAD  
BENNINGTON, VERMONT

**Tighe&Bond**

SCALE 1:25,000

MARCH 2006

**Figure 3**  
**Aerial Map**  
**U.S. Tsubaki**  
**222 Bowen Rd**  
**Bennington, Vermont**



500                    0                    500 Feet



Orthophoto # 096040  
Flown in May 2000

Scale 1:2,400

Map prepared Feb. 21, 2006 by BCRC.

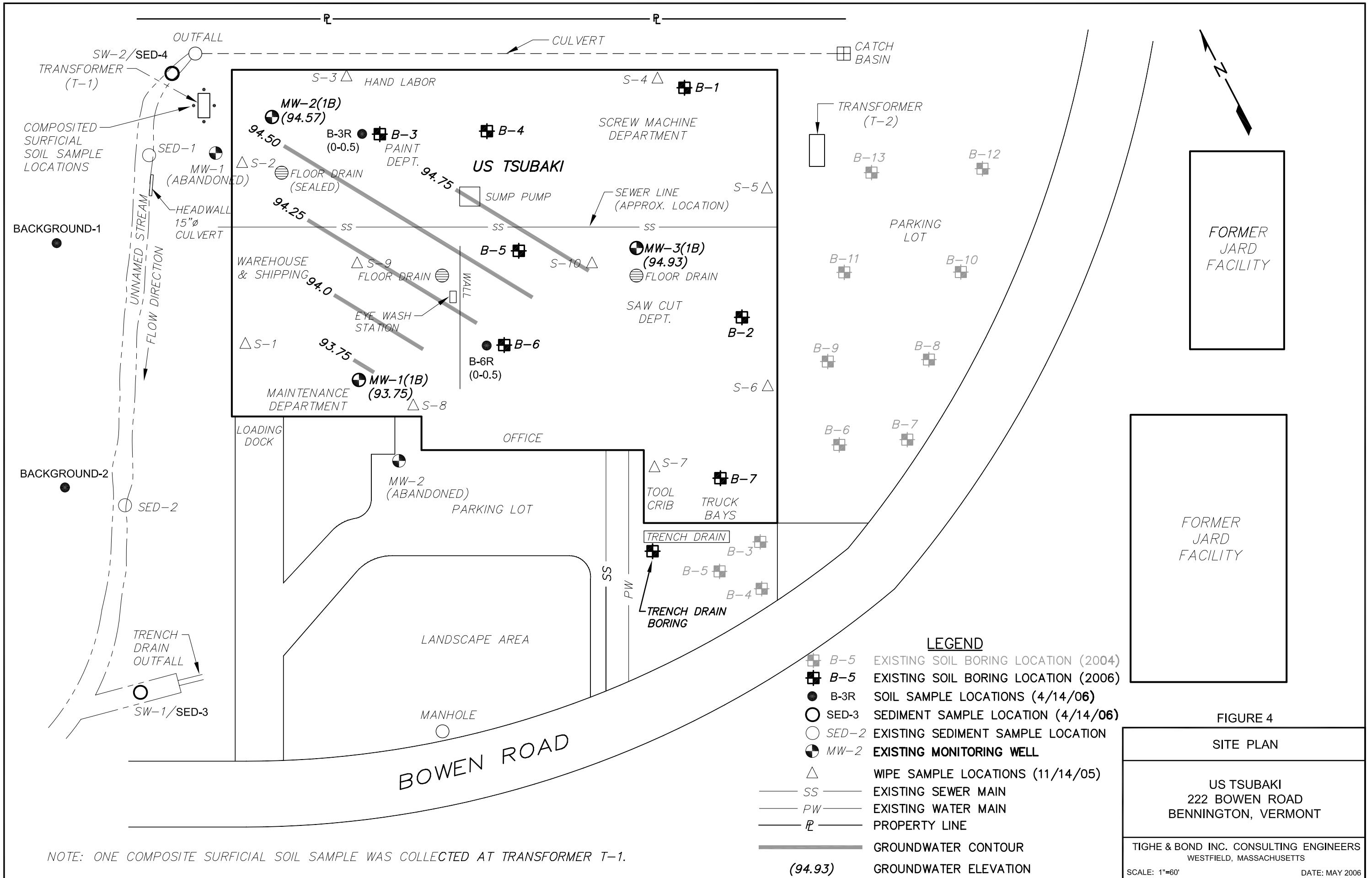


TABLE 1A (Addendum)  
Soil Analytical Results  
VOCs, Total Metals and PCBs  
U.S. Tsubaki, Bennington, Vermont

| Sample ID                          | B-1      | MW-1 (IB) | B-1      | B-5      | MW-1 (IB) | B-3      | B-5      | MW-2 (IB) | B-5      | B-4      | T-1       | B-3R      | B-4R      | Background-1 | Background-2 | EPA Region 9 PRGs <sup>1</sup> |                     |       |
|------------------------------------|----------|-----------|----------|----------|-----------|----------|----------|-----------|----------|----------|-----------|-----------|-----------|--------------|--------------|--------------------------------|---------------------|-------|
| Sample Depth                       | 8'-10'   | 8'-10'    | 6'-10'   | 6'-10'   | 6'-10'    | 6'-10'   | 6'-10'   | 6'-10'    | 6'-10'   | 6'-10'   | Composite | 0.4"      | 0.4"      | 0.4"         | 0.4"         | ug/kg                          | ug/kg               | ug/kg |
| Date Collected                     | 2/8/2008 | 2/8/2008  | 2/8/2008 | 2/8/2008 | 2/8/2008  | 2/8/2008 | 2/8/2008 | 2/8/2008  | 2/8/2008 | 2/8/2008 | 2/18/2008 | 4/14/2008 | 4/14/2008 | 4/14/2008    | Residential  | Industrial                     | DAF 20 <sup>2</sup> |       |
| Collected By                       | JMP      | JMP       | JMP       | JMP       | MOW          | MOW          | MOW                            | MOW                 | MOW   |
| Volatile Organic Compounds (ug/kg) |          |           |          |          |           |          |          |           |          |          |           |           |           |              |              |                                |                     |       |
| 1,1,1,2-Tetrachloroethane          | <0.93    | <0.96     | <1.0     | <1.0     | <0.85     | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | 3.200        | 7,300                          | —                   |       |
| 1,1,1-Trichloroethane              | <0.93    | <0.96     | <1.0     | <1.0     | <0.85     | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | 1,200,000    | 1,200,000                      | 2,000               |       |
| 1,1,2,2-Tetrachloroethane          | <0.93    | <0.96     | <1.0     | <1.0     | <0.85     | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | 410          | 930                            | 3                   |       |
| 1,1,2-Trichloroethane              | <1.4     | <1.4      | <1.5     | <1.6     | <1.3      | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | 730          | 1,600                          | 20                  |       |
| 1,1-Dichloroethane                 | <1.4     | <1.4      | <1.5     | <1.6     | <1.3      | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | 510,000      | 1,700,000                      | 23,000              |       |
| 1,1-Dichloroethene                 | <0.93    | <0.96     | <1.0     | <1.0     | <0.85     | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | 120,000      | 410,000                        | 60                  |       |
| 1,1-Difluoroethane                 | <4.5     | <1.0      | <4.0     | <4.0     | <3.5      | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | —            | —                              | —                   |       |
| 1,2,2-Trichloroethene              | <4.6     | <4.8      | <5.1     | <5.2     | <4.3      | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | 34           | 76                             | —                   |       |
| 1,2,2-Trichloropropane             | <9.3     | <9.6      | <10      | <10      | <8.5      | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | 62,000       | 220,000                        | 5,000               |       |
| 1,2,4-Trichlorobenzene             | <4.6     | <4.8      | <5.1     | <5.2     | <4.3      | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | 52,000       | 170,000                        | —                   |       |
| 1,2-Dibromo-3-chloropropane        | <4.6     | <4.8      | <5.1     | <5.2     | <4.3      | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | 460          | 2,000                          | —                   |       |
| 1,2-Dibromoethane                  | <3.7     | <3.8      | <4.1     | <4.2     | <3.4      | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | 32           | 76                             | —                   |       |
| 1,2-Dibromobenzene                 | <4.6     | <4.8      | <5.1     | <5.2     | <4.3      | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | 600,000      | 600,000                        | 17,000              |       |
| 1,2-Dichloroethane                 | <0.93    | <0.96     | <1.0     | <1.0     | <0.85     | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | 280          | 600                            | 20                  |       |
| cis-1,2-Dichloroethene             | <0.93    | <0.96     | <1.0     | <1.0     | <0.85     | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | 43,000       | 150,000                        | —                   |       |
| trans-1,2-Dichloroethene           | <1.4     | <1.4      | <1.5     | <1.5     | <1.5      | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | 59,000       | 230,000                        | —                   |       |
| 1,2-Dimethylbenzene                | <4.6     | <4.8      | <5.1     | <5.2     | <4.3      | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | 55           | 76                             | 38                  |       |
| 1,3,5-Trimethylbenzene             | <4.6     | <4.8      | <5.1     | <5.2     | <4.3      | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | 21,000       | 70,000                         | —                   |       |
| 1,3-Dichlorobenzene                | <4.6     | <4.8      | <5.1     | <5.2     | <4.3      | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | 530,000      | 600,000                        | —                   |       |
| 1,3-Dichloropropane                | <4.6     | <4.8      | <5.1     | <5.2     | <4.3      | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | 100,000      | 360,000                        | —                   |       |
| cis-1,3-Dichloropropene            | <0.93    | <0.96     | <1.0     | <1.0     | <0.85     | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | —            | —                              | —                   |       |
| trans-1,3-Dichloropropene          | <0.93    | <0.96     | <1.0     | <1.0     | <0.85     | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | —            | —                              | —                   |       |
| 1,4-Dichlorobutane                 | <9.3     | <9.6      | <10      | <10      | <8.5      | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | 3,400        | 7,900                          | 2,000               |       |
| 1,4-Dichlorobenzene                | <4.6     | <4.8      | <5.1     | <5.2     | <4.3      | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | 44,000       | 156,000                        | —                   |       |
| 1,4-Dioxane                        | NA       | NA        | NA       | NA       | NA        | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | 7.9          | 18.9                           | —                   |       |
| trans-1,4-Dichloro-2-butene        | <4.6     | <4.8      | <5.1     | <5.2     | <4.3      | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | —            | —                              | —                   |       |
| 2-Chloropropane                    | <4.6     | <4.8      | <5.1     | <5.2     | <4.3      | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | 22,000,000   | 110,000,000                    | —                   |       |
| 2-Chlorotoluene                    | <0.93    | <0.96     | <10      | <10      | <8.5      | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | —            | —                              | —                   |       |
| 4-Methyl-2-pentanone               | <0.93    | <0.96     | <10      | <10      | <8.5      | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | 14,000,000   | 54,000,000                     | 16,000              |       |
| Acetone                            | 47       | <9.6      | 37       | 49       | 35        | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | 100          | 340                            | —                   |       |
| Acrylonitrile                      | <23      | <24       | <26      | <26      | <21       | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | 210          | 490                            | —                   |       |
| Benzene                            | <9.3     | <9.6      | <10      | <10      | <0.85     | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | 640          | 1,400                          | 30                  |       |
| Bromobenzene                       | <4.6     | <4.8      | <5.1     | <5.2     | <4.3      | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | 28,000       | 92,000                         | —                   |       |
| Bromoform                          | <0.93    | <0.96     | <1.0     | <1.0     | <0.85     | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | 820          | 1,800                          | 600                 |       |
| Bromomethane                       | <3.7     | <3.8      | <4.1     | <4.2     | <3.4      | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | 62,000       | 220,000                        | 800                 |       |
| n-Buylbenzene                      | <1.9     | <1.9      | <2.0     | <2.1     | <1.7      | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | 3,900        | 13,000                         | 200                 |       |
| sec-Buylbenzene                    | <0.93    | <0.96     | <1.0     | <1.0     | <0.85     | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | 240,000      | 400,000                        | —                   |       |
| tert-Buylbenzene                   | <4.6     | <4.8      | <5.1     | <5.2     | <4.3      | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | 220,000      | 320,000                        | —                   |       |
| Carbon disulfide                   | <9.3     | <9.6      | <10      | <10      | <8.5      | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | 390,000      | 390,000                        | —                   |       |
| Carbon tetrachloride               | <0.93    | <0.96     | <1.0     | <1.0     | <0.85     | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | 360,000      | 720,000                        | 32,000              |       |
| Chlorobenzene                      | <0.93    | <0.96     | <1.0     | <1.0     | <0.85     | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | 250          | 550                            | 70                  |       |
| Chlorobromomethane                 | NA       | NA        | NA       | NA       | NA        | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | 150,000      | 530,000                        | 1,000               |       |
| Chloroform                         | <1.9     | <1.9      | <2.0     | <2.1     | <1.7      | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | 3,000        | 6,500                          | —                   |       |
| Chloroethylene                     | <1.4     | <1.4      | <1.5     | <1.6     | <1.3      | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | 220          | 470                            | 600                 |       |
| cis-1,2-Dichloroethene             | <4.6     | <4.8      | <5.1     | <5.2     | <4.3      | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | 47,000       | 160,000                        | —                   |       |
| cis-1,3-Dichloroethene             | <0.93    | <0.96     | <1.0     | <1.0     | <0.85     | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | 160,000      | 560,000                        | —                   |       |
| Dibromochloromethane               | <0.93    | <0.96     | <10      | <10      | <8.5      | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | —            | —                              | —                   |       |
| Dichlorobromomethane               | <9.3     | <9.6      | <10      | <10      | <8.5      | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | —            | —                              | —                   |       |
| Dichlorodifluoromethane            | <9.3     | <9.6      | <10      | <10      | <8.5      | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | 94,000       | 310,000                        | —                   |       |
| Ethylbenzene                       | <0.93    | <0.96     | <1.0     | <1.0     | <0.85     | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | 400,000      | 400,000                        | 13000               |       |
| Ethylene Dibromide                 | NA       | NA        | NA       | NA       | NA        | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | —            | —                              | —                   |       |
| Ethyl ether                        | <4.6     | <4.8      | <5.1     | <5.2     | <4.3      | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | 1,800,000    | 1,800,000                      | —                   |       |
| Ethyl methacrylate                 | <9.3     | <9.6      | <10      | <10      | <8.5      | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | 140,000      | 140,000                        | —                   |       |
| Hexachlorobutadiene                | <4.6     | <4.8      | <5.1     | <5.2     | <4.3      | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | 6200         | 22000                          | 2,000               |       |
| Iodomethane                        | <9.3     | <9.6      | <10      | <10      | <8.5      | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | —            | —                              | —                   |       |
| Isopropylbenzene                   | <0.93    | <0.96     | <1.0     | <1.0     | <0.85     | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | —            | —                              | —                   |       |
| Isooctyl ether                     | NA       | NA        | NA       | NA       | NA        | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | —            | —                              | —                   |       |
| p-Hexanesulphonic acid             | <0.93    | <0.96     | <1.0     | <1.0     | <0.85     | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | —            | —                              | —                   |       |
| Methyl chloride                    | <4.6     | <4.8      | <5.1     | <5.2     | <4.3      | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | 32,000       | 70,000                         | —                   |       |
| Methylene chloride                 | <9.3     | <9.6      | <10      | <10      | <8.5      | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | 9,100        | 21000                          | 20                  |       |
| Naphthalene                        | <4.6     | <4.8      | <5.1     | <5.2     | <4.3      | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | 56000        | 190,000                        | 84,000              |       |
| n-Propylbenzene                    | <0.93    | <0.96     | <1.0     | <1.0     | <0.85     | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | 240,000      | 240,000                        | —                   |       |
| Styrene                            | <1.9     | <1.9      | <2       | <2       | <1.7      | NA       | NA       | NA        | NA       | NA       | <130      | <130      | NA        | NA           | 1,700,000    | 1,700,000                      | 4,000               |       |
| Tetrachloroethene (PCE)            | <0.93    | <0.96     | <1.0     | <1.0     | <0.85     | NA       | NA       | NA        | NA       | NA       | &lt       |           |           |              |              |                                |                     |       |

**TABLE 1A (Addendum)**  
**Soil Analytical Results**  
**VOCs, Total Metals and PCBs**  
**U.S. Tsubaki, Bennington, Vermont**

TABLE 1B (Addendum)  
Soil Analytical Results  
Semi-VOCs PAHs  
U.S. Tsubaki, Bennington, Vermont

| Sample ID                                      | B-1   | MW-1 (1B) | B-1    | B-5    | MW-1 (1B) | B-3R | B-6R   | EPA Region 9 PRGs <sup>a</sup> |             |                     |
|------------------------------------------------|-------|-----------|--------|--------|-----------|------|--------|--------------------------------|-------------|---------------------|
| Sample Depth                                   | 0'-5' | 0'-5'     | 5'-10' | 5'-10' | 5'-10'    | 0'-5 | 0'-5.5 | Residential                    | Industrial  | DAF 20 <sup>b</sup> |
| <b>Semi-Volatile Organic Compounds (µg/kg)</b> |       |           |        |        |           |      |        |                                |             |                     |
| Aceanaphthalene                                | <370  | <350      | <400   | <400   | <370      | <350 | <340   | 3,700,000                      | 29,000,000  | 570,000             |
| Benzidine                                      | <370  | <350      | <4000  | <4000  | <370      | NS   | NS     | 2.1                            | 7.5         | -                   |
| 1,2-Dimethoxybenzene                           | <370  | <350      | <400   | <400   | <370      | <350 | <340   | 62,000                         | 220,000     | 500                 |
| Heptachlorobutene                              | <370  | <350      | <400   | <400   | <370      | <350 | <340   | 300                            | 1100        | 200                 |
| Bis(2-chloroethyl)ether                        | <370  | <350      | <400   | <400   | <370      | NS   | NS     | 220                            | 580         | 0.4                 |
| 1-Chloronaphthalene                            | <370  | <350      | <400   | <400   | <370      | NS   | NS     | -                              | -           | -                   |
| 2-Chloronaphthalene                            | <440  | <420      | <480   | <480   | <440      | <350 | <340   | -                              | -           | -                   |
| 1,2-Dichlorobenzene                            | <370  | <350      | <400   | <400   | <370      | NS   | NS     | 590,000                        | 600,000     | 17,000              |
| 1,3-Dichlorobenzene                            | <370  | <350      | <400   | <400   | <370      | NS   | NS     | 590,000                        | 600,000     | 17,000              |
| 1,4-Dichlorobenzene                            | <370  | <350      | <400   | <400   | <370      | NS   | NS     | 700                            | 2200        | 200                 |
| 1,3-Dichlorobutadiene                          | <730  | <700      | <790   | <790   | <740      | <690 | <680   | 1100                           | 3800        | 7                   |
| 2,4-Dichlorotoluene                            | <370  | <350      | <400   | <400   | <370      | <350 | <340   | 720                            | 2900        | 0.8                 |
| 2,6-Dichlorotoluene                            | <370  | <350      | <400   | <400   | <370      | <350 | <340   | 720                            | 2500        | 0.8                 |
| Acenaphthene                                   | <370  | <350      | <400   | <400   | <370      | <350 | <340   | 4400                           | 16,000      | -                   |
| Fluoranthene                                   | <370  | <350      | <400   | <400   | <370      | <350 | <340   | 2,300,000                      | 22,000,000  | 4,300,000           |
| 4-Chlorophenyl phenyl ether                    | <370  | <350      | <400   | <400   | <370      | NS   | NS     | -                              | -           | -                   |
| 4-Bromophenyl phenyl ether                     | <370  | <350      | <400   | <400   | <370      | <350 | <340   | -                              | -           | -                   |
| Bis(2-chloropropyl) ether                      | <370  | <350      | <400   | <400   | <370      | NS   | NS     | 2900                           | 7400        | -                   |
| Bis(2-chloroethyl) methane                     | <370  | <350      | <400   | <400   | <370      | <350 | <340   | -                              | -           | -                   |
| Heptachlorobutadiene                           | <730  | <700      | <790   | <790   | <740      | <690 | <680   | 6200                           | 22,000      | 2000                |
| Heptachloroperhexadiene                        | <730  | <700      | <790   | <790   | <740      | <690 | <680   | 370,000                        | 3,700,000   | 400,000             |
| Heptachloroethane                              | <370  | <350      | <400   | <400   | <370      | <350 | <340   | 38000                          | 120,000     | 500                 |
| Iachophene                                     | <370  | <350      | <400   | <400   | <370      | <350 | <340   | 510,000                        | 510,000     | 500                 |
| Naphthalene                                    | <370  | <350      | <400   | <400   | <370      | <350 | <340   | 59000                          | 190,000     | 84,000              |
| Nitrobenzene                                   | <370  | <350      | <400   | <400   | <370      | <350 | <340   | 20,000                         | 100,000     | 100                 |
| 1-Nitroacetone                                 | <1100 | <1000     | <1200  | <1200  | <1100     | NS   | NS     | -                              | -           | -                   |
| 4-Nitro-2-n-propylamine                        | <370  | <350      | <400   | <400   | <370      | NS   | NS     | 69                             | 250         | .05                 |
| Bis(2-chloroethyl)phthalate                    | <730  | <700      | <790   | <790   | <740      | 840  | 790    | 35,000                         | 120,000     | -                   |
| Butyl benzyl phthalate                         | <370  | <350      | <400   | <400   | <370      | <350 | <340   | 12,000,000                     | 10,000,000  | -                   |
| Di-n-butylphthalate                            | <370  | <350      | <400   | <400   | <370      | <350 | <340   | -                              | -           | 10,000,000          |
| Di-octylphthalate                              | <370  | <350      | <400   | <400   | <370      | <350 | <340   | 2,400,000                      | 25,000,000  | -                   |
| Desthiobutyrate                                | <370  | <350      | <400   | <400   | <370      | <350 | <340   | 46,000,000                     | 100,000,000 | -                   |
| Dimethylphthalate                              | <370  | <350      | <400   | <400   | <370      | <350 | <340   | 62,000                         | 2100        | 2000                |
| Benzol[a]anthracene                            | <370  | <350      | <400   | <400   | <370      | <350 | <340   | 6.2                            | 210         | 800                 |
| Benzol[b]pyrene                                | <370  | <350      | <400   | <400   | <370      | <350 | <340   | 620                            | 2100        | 500                 |
| Benzol[b]fluoranthene                          | <370  | <350      | <400   | <400   | <370      | <350 | <340   | 6200                           | 21000       | 40000               |
| Chrysene                                       | <370  | <350      | <400   | <400   | <370      | <350 | <340   | 62000                          | 210000      | 160000              |
| Fluoranthene                                   | <370  | <350      | <400   | <400   | <370      | <350 | <340   | -                              | -           | -                   |
| Anthracene                                     | <370  | <350      | <400   | <400   | <370      | <350 | <340   | 22,000,000                     | 100,000,000 | 12,000,000          |
| Benzol[b]perylene                              | <370  | <350      | <400   | <400   | <370      | <350 | <340   | -                              | -           | -                   |
| Fluorene                                       | <370  | <350      | <400   | <400   | <370      | <350 | <340   | 2,700,000                      | 26,000,000  | 560,000             |
| Perynethene                                    | <370  | <350      | <400   | <400   | <370      | <350 | <340   | -                              | -           | -                   |
| Phenanthrene                                   | <370  | <350      | <400   | <400   | <370      | <350 | <340   | 180,000                        | 1,800,000   | -                   |
| 1,4-Dimethylphenanthrene                       | <370  | <350      | <400   | <400   | <370      | <350 | <340   | 62,000                         | 2100        | 2000                |
| 1,4-Dimethylnaphthalene                        | <370  | <350      | <400   | <400   | <370      | <350 | <340   | 18,000                         | 62,000      | -                   |
| Heptachloropropene                             | <730  | <700      | <790   | <790   | <740      | NS   | NS     | -                              | -           | -                   |
| Nitroodobutylamine                             | <370  | <350      | <400   | <400   | <370      | <350 | <340   | 61,000                         | 220,000     | -                   |
| 2-Methylnaphthalene                            | <370  | <350      | <400   | <400   | <370      | <350 | <340   | 85,000                         | 300,000     | -                   |
| 1,5-Tetramethylbenzene                         | <1500 | <1400     | <1600  | <1600  | <1500     | NS   | NS     | 18,000                         | 180,000     | -                   |
| Pentachlorobenzene                             | <1500 | <1400     | <1600  | <1600  | <1500     | NS   | NS     | 40,000                         | 400,000     | -                   |
| 4-Naphthylamine                                | <1500 | <1400     | <1600  | <1600  | <1500     | NS   | NS     | -                              | -           | -                   |
| 4-Naphthylaminium                              | <1500 | <1400     | <1600  | <1600  | <1500     | NS   | NS     | -                              | -           | -                   |
| Phenanthrophen                                 | <370  | <350      | <400   | <400   | <370      | <350 | <340   | 62                             | 210         | 2,000               |
| Indeno[1,2,3- <i>cd</i> ]pyrene                | <370  | <350      | <400   | <400   | <370      | <350 | <340   | 620                            | 2100        | 14,000              |
| Pyrene                                         | <370  | <350      | <400   | <400   | <370      | <350 | <340   | 2,300,000                      | 290,000,000 | 4,200,000           |
| Benzol[b]pyrene                                | <370  | <350      | <400   | <400   | <370      | NS   | NS     | -                              | -           | -                   |
| Biphenyl                                       | <370  | <350      | <400   | <400   | <370      | NS   | NS     | 3,000,000                      | 23,000,000  | -                   |
| Perylene                                       | <370  | <350      | <400   | <400   | <370      | <350 | <340   | -                              | -           | -                   |
| Acenaphthene                                   | <370  | <350      | <400   | <400   | <370      | <350 | <340   | 22,000,000                     | 100,000,000 | 12,000,000          |
| 4-Chloronaphthalene                            | <370  | <350      | <400   | <400   | <370      | <350 | <340   | -                              | -           | -                   |
| 1-Methylnaphthalene                            | <370  | <350      | <400   | <400   | <370      | <350 | <340   | -                              | -           | -                   |
| 2-Nitroaniline                                 | <370  | <350      | <400   | <400   | <370      | <350 | <340   | 180,000                        | 1,800,000   | -                   |
| 3-Nitroaniline                                 | <370  | <350      | <400   | <400   | <370      | <350 | <340   | 18,000                         | 82,000      | -                   |
| 4-Nitroaniline                                 | <370  | <350      | <400   | <400   | <370      | <350 | <340   | 23,000                         | 230,000     | -                   |
| Diethylaniline                                 | <370  | <350      | <400   | <400   | <370      | <350 | <340   | 150,000                        | 1,600,000   | -                   |
| 4-Nitro-2-n-butylamine                         | <370  | <350      | <400   | <400   | <370      | <350 | <340   | 1900                           | 6600        | -                   |
| Heptachlorobenzene                             | <370  | <350      | <400   | <400   | <370      | <350 | <340   | NS                             | NS          | -                   |
| Iodin                                          | <370  | <350      | <400   | <400   | <370      | <350 | <340   | NS                             | NS          | -                   |
| Di-methylaminoazobenzene                       | <730  | <700      | <790   | <790   | <740      | NS   | NS     | -                              | -           | -                   |
| Chlorobenzene                                  | <1500 | <1400     | <1600  | <1600  | <1500     | NS   | NS     | 1,800                          | 6,400       | -                   |
| 2,3-Dihydrophenanthrene                        | <1500 | <1400     | <1600  | <1600  | <1500     | NS   | NS     | -                              | -           | -                   |
| 2,4-Dichlorobenzene                            | <1500 | <1400     | <1600  | <1600  | <1500     | NS   | NS     | 40,000                         | 400,000     | -                   |
| 2,4-Dimethylphenol                             | <370  | <350      | <400   | <400   | <370      | <350 | <340   | 180,000                        | 1,800,000   | 4,000               |
| 2,4-Dinitrophenol                              | <370  | <350      | <400   | <400   | <370      | <350 | <340   | 180,000                        | 1,800,000   | 1,000               |
| 2,4-Dinitrophenol                              | <370  | <350      | <400   | <400   | <370      | <350 | <340   | 120,000                        | 1,200,000   | 300                 |
| 4-Nitrophenol                                  | <370  | <350      | <400   | <400   | <370      | <350 | <340   | 18,000,000                     | 100,000,000 | 100,000             |
| 2,4,5-Triphenylphenol                          | <370  | <350      | <400   | <400   | <370      | <350 | <340   | 3,100,000                      | 31,000,000  | 15,000              |
| 2,4,5-Triphenylphenol                          | <370  | <350      | <400   | <400   | <370      | <350 | <340   | 6,100,000                      | 62,000,000  | 270,000             |
| Benzol[a]anthracene                            | <730  | <700      | <790   | <790   | <740      | NS   | NS     | -                              | -           | -                   |
| Benzol[b]anthracene                            | <370  | <350      | <400   | <400   | <370      | <350 | <340   | 62,000                         | 2100        | 2000                |
| Benzol[b]acid                                  | <370  | <350      | <400   | <400   | <370      | <350 | <340   | 100,000,000                    | 100,000,000 | 400,000             |
| Benzyl Alcohol                                 | <370  | <350      | <400   | <400   | <370      | <350 | <340   | 18,000,000                     | 100,000,000 | -                   |
| Cyclohexene                                    | <370  | <350      | <400   | <400   | <370      | <350 | <340   | 24,000                         | 86,000      | 600                 |
| Pyridine                                       | <370  | <350      | <400   | <400   | <370      | <350 | <340   | 6,100                          | 62,000      | -                   |
| 2-Picoline                                     | <1500 | <1400     | <1600  | <1600  | <1500     | NS   | NS     | -                              | -           | -                   |
| Promamide                                      | <1500 | <1400     | <1600  | <1600  | <1500     | NS   | NS     | 4,600,000                      | 46,000,000  | -                   |
| Acetophenone                                   | <1500 | <1400     | <1600  | <1600  | <1500     | NS   | NS     | -                              | -           | -                   |
| 2,2-oxazol[1,3- <i>c</i> ]propane              | <1500 | <1400     | <1600  | <1600  | <1500     | NS   | NS     | -                              | -           | -                   |
| Methyl methanesulfonate                        | <1500 | <1400     | <1600  | <1600  | <1500     | NS   | NS     | -                              | -           | -                   |
| Acenaphthene                                   | <15   | <14       | <16    | <16    | <15       | NS   | NS     | 3,700,000                      | 29,000,000  | 570,000             |
| 2-Chloronaphthalene                            | <15   | <14       | <16    | <16    | <15       | NS   | NS     | -                              | -           | -                   |
| Fluoranthene                                   | <15   | <14       | <16    | <16    | <15       | NS   | NS     | 2,000,000                      | 22,000,000  | 4,300,000           |
| Fluoranthene                                   | <15   | <14       | <16    | <16    | <15       | NS   | NS     | -                              | -           | -                   |
| Fluoranthene                                   | <15   | <14       | <16    | <16    | <15       | NS   | NS     | 2,000,000                      | 22,000,000  | 4,300,000           |
| Naphthalene                                    | <15   | <14       | <16    | <16    | <15       | NS   | NS     | -                              | -           | -                   |
| Naphthalene                                    | <15   | <14       | <16    | <16    | <15       | NS   | NS     | 6,200                          | 2100        | 2000                |
| Benzol[a]anthracene                            |       |           |        |        |           |      |        |                                |             |                     |

TABLE 1B (Addendum)  
Soil Analytical Results  
Semi-VOCs PAHs  
U.S. Tsubaki, Bennington, Vermont

**TABLE 2A (Addendum)**  
**Groundwater Analytical Results**  
**VOCs Total Metals**  
U.S. Tsubaki, Bennington, Vermont

| Sample ID                                       | MW-1 (1B)<br>2/16/2006<br>JMP | MW-2 (1B)<br>2/16/2006<br>JMP | MW-3 (1B)<br>2/16/2006<br>JMP | Duplicate<br>2/16/2006<br>JMP | VT Primary Groundwater Quality Standards |        |
|-------------------------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|------------------------------------------|--------|
|                                                 |                               |                               |                               |                               | ES                                       | PAL    |
| <b>Total Metals (µg/L)</b>                      |                               |                               |                               |                               |                                          |        |
| Antimony, Total                                 | <0.5                          | <0.5                          | <0.5                          | <0.5                          | 6.0                                      | 3.0    |
| Arsenic, Total                                  | <0.5                          | <0.5                          | <0.5                          | <0.5                          | 10                                       | 1      |
| Barium, Total                                   | NA                            | NA                            | NA                            | NA                            | 2000                                     | 1000   |
| Beryllium, Total                                | <0.5                          | <0.5                          | <0.5                          | <0.5                          | 4.0                                      | 1.0    |
| Cadmium, Total                                  | <0.5                          | <0.5                          | <0.5                          | <0.5                          | 5                                        | 2.5    |
| Chromium, Total                                 | 1.1                           | <0.5                          | 0.9                           | 1.1                           | 100                                      | 50     |
| Copper, Total                                   | 1.2                           | <0.5                          | 1.0                           | 1.5                           | 1300.00                                  | 650.0  |
| Lead, Total                                     | 0.7                           | <0.5                          | <0.5                          | 0.9                           | 15                                       | 1.5    |
| Mercury, Total                                  | <0.2                          | <0.2                          | <0.2                          | <0.2                          | 2                                        | 0.5    |
| Nickel, Total                                   | 0.7                           | <0.5                          | <0.5                          | 0.7                           | 100.0                                    | 50.0   |
| Selenium, Total                                 | <1.0                          | <1.0                          | <1.0                          | <1.0                          | 50                                       | 25     |
| Silver, Total **                                | <0.5                          | <0.5                          | <0.5                          | <0.5                          | 100                                      | 50     |
| Thallium, Total                                 | <0.5                          | <0.5                          | <0.5                          | <0.5                          | 2.0                                      | 1.0    |
| Zinc, Total**                                   | 6.4                           | 7.9                           | 6.8                           | 7.9                           | 5,000                                    | 2,500  |
| <b>Volatile Organic Compounds (VOCs) (µg/L)</b> |                               |                               |                               |                               |                                          |        |
| 1,1,1,2-Tetrachloroethane                       | <0.50                         | <0.50                         | <0.50                         | NA                            | 70.0                                     | 35.0   |
| 1,1,1-Trichloroethane                           | <0.50                         | <0.50                         | <0.50                         | NA                            | 200.0                                    | 100.0  |
| 1,1,2,2-Tetrachloroethane                       | <0.50                         | <0.50                         | <0.50                         | NA                            | —                                        | —      |
| 1,1,2-Trichloroethane                           | <0.75                         | <0.75                         | <0.75                         | NA                            | 5.0                                      | 2.5    |
| 1,1-Dichloroethane                              | <0.75                         | <0.75                         | <0.75                         | NA                            | 70.0                                     | 35.0   |
| 1,1-Dichloroethene                              | <0.50                         | <0.50                         | <0.50                         | NA                            | 7.0                                      | 0.7    |
| 1,1-Dichloropropene                             | <2.5                          | <2.5                          | <2.5                          | NA                            | —                                        | —      |
| 1,2,3-Trichlorobenzene                          | <2.5                          | <2.5                          | <2.5                          | NA                            | —                                        | —      |
| 1,2,3-Trichloropropane                          | <5.0                          | <5.0                          | <5.0                          | NA                            | 5.0                                      | 0.5    |
| 1,2,4-Trichlorobenzene                          | <2.5                          | <2.5                          | <2.5                          | NA                            | 70.0                                     | 35.0   |
| 1,2,4-Trimethylbenzene                          | <2.5                          | <2.5                          | <2.5                          | NA                            | 5.0                                      | 2.5    |
| 1,2-Dibromo-3-chloropropane                     | <2.5                          | <2.5                          | <2.5                          | NA                            | —                                        | —      |
| 1,2-Dibromoethane                               | <2.0                          | <2.0                          | <2.0                          | NA                            | —                                        | —      |
| 1,2-Dichlorobenzene                             | <2.5                          | <2.5                          | <2.5                          | NA                            | —                                        | —      |
| 1,2-Dichloroethane                              | <0.50                         | <0.50                         | <0.50                         | NA                            | 5.0                                      | 0.5    |
| 1,2-Dichloropropane                             | <1.8                          | <1.8                          | <1.8                          | NA                            | 5.0                                      | 0.5    |
| 1,3,5-Trimethylbenzene                          | <2.5                          | <2.5                          | <2.5                          | NA                            | 4.0                                      | 2.0    |
| 1,3-Dichlorobenzene                             | <2.5                          | <2.5                          | <2.5                          | NA                            | —                                        | —      |
| 1,3-Dichloropropane                             | <2.5                          | <2.5                          | <2.5                          | NA                            | 0.5                                      | 0.5    |
| 1,4-Dichlorobenzene                             | <2.5                          | <2.5                          | <2.5                          | NA                            | —                                        | —      |
| 2,2-Dichloropropane                             | <2.5                          | <2.5                          | <2.5                          | NA                            | —                                        | —      |
| 2-Butanone (MEK)                                | <5.0                          | <5.0                          | <5.0                          | NA                            | 4200.0                                   | 2100.0 |
| 2-Hexanone                                      | <5.0                          | <5.0                          | <5.0                          | NA                            | —                                        | —      |
| 4-Methyl-2-pentanone (MIBK)                     | <5.0                          | <5.0                          | <5.0                          | NA                            | —                                        | —      |
| Acetone                                         | <5.0                          | <5.0                          | <5.0                          | NA                            | 700.0                                    | 350.0  |
| Acrolein                                        | <12                           | <12                           | <12                           | NA                            | —                                        | —      |
| Acrylonitrile                                   | <5.0                          | <5.0                          | <5.0                          | NA                            | —                                        | —      |
| Benzene*                                        | <0.50                         | <0.50                         | <0.50                         | NA                            | 5.0                                      | 0.5    |
| Bromobenzene                                    | <2.5                          | <2.5                          | <2.5                          | NA                            | —                                        | —      |
| Bromochloromethane                              | <2.5                          | <2.5                          | <2.5                          | NA                            | 90.0                                     | 9.0    |
| Bromodichloromethane                            | <0.50                         | <0.50                         | <0.50                         | NA                            | —                                        | —      |
| Bromoform                                       | <2.0                          | <2.0                          | <2.0                          | NA                            | —                                        | —      |
| Bromomethane                                    | <1.0                          | <1.0                          | <1.0                          | NA                            | 10.0                                     | 1.0    |
| Carbon disulfide                                | <5.0                          | <5.0                          | <5.0                          | NA                            | —                                        | —      |
| Carbon tetrachloride*                           | <0.50                         | <0.50                         | <0.50                         | NA                            | 5.0                                      | 0.5    |
| Chlorobenzene                                   | <0.50                         | <0.50                         | <0.50                         | NA                            | 100.0                                    | 50.0   |
| Chloroethane                                    | <1.0                          | <1.0                          | <1.0                          | NA                            | —                                        | —      |
| Chloroform                                      | <0.75                         | <0.75                         | <0.75                         | NA                            | —                                        | —      |
| Chloromethane                                   | <2.5                          | <2.5                          | <2.5                          | NA                            | 30.0                                     | 15.0   |
| Dibromochloromethane                            | <0.50                         | <0.50                         | <0.50                         | NA                            | —                                        | —      |
| Dibromomethane                                  | <5.0                          | <5.0                          | <5.0                          | NA                            | —                                        | —      |
| Dichlorodifluoromethane                         | <5.0                          | <5.0                          | <5.0                          | NA                            | 1000.0                                   | 500.0  |
| 1,4-Dichlorobutane                              | <5.0                          | <5.0                          | <5.0                          | NA                            | —                                        | —      |
| Ethylbenzene                                    | <0.50                         | <0.50                         | <0.50                         | NA                            | 700.0                                    | 350.0  |
| Ethyl ether                                     | <2.5                          | <2.5                          | <2.5                          | NA                            | —                                        | —      |
| Ethyl methacrylate                              | <5.0                          | <5.0                          | <5.0                          | NA                            | —                                        | —      |
| Hexachlorobutadiene                             | <0.80                         | <0.80                         | <0.80                         | NA                            | 1.0                                      | 0.5    |
| Iodomethane                                     | <5.0                          | <5.0                          | <5.0                          | NA                            | —                                        | —      |
| Isopropylbenzene                                | <0.5                          | <0.5                          | <0.5                          | NA                            | —                                        | —      |
| Methyl-tert-butyl-ether (MTBE)                  | <1.0                          | <1.0                          | <1.0                          | NA                            | 40.0                                     | 20.0   |
| Methylene chloride                              | <5.0                          | <5.0                          | <5.0                          | NA                            | 5.0                                      | 0.5    |
| Naphthalene                                     | <2.5                          | <2.5                          | <2.5                          | NA                            | 20.0                                     | 10.0   |
| Styrene                                         | <1.0                          | <1.0                          | <1.0                          | NA                            | 100.0                                    | 50.0   |
| Tetrachloroethene*                              | <0.5                          | <0.5                          | <0.5                          | NA                            | 5.0                                      | 0.5    |
| Tetrahydrofuran                                 | <10                           | <10                           | <10                           | NA                            | —                                        | —      |
| Toluene                                         | <0.75                         | <0.75                         | <0.75                         | NA                            | 1000.0                                   | 500.0  |
| Trichloroethene (TCE)*                          | <0.50                         | <0.50                         | <0.50                         | NA                            | 5.0                                      | 0.5    |
| Trichlorofluoromethane                          | <2.5                          | <2.5                          | <2.5                          | NA                            | 2100.0                                   | 1050.0 |
| Vinyl chloride*                                 | <1.0                          | <1.0                          | <1.0                          | NA                            | 2.0                                      | 0.5    |
| cis-1,3-Dichloropropene                         | <0.50                         | <0.50                         | <0.50                         | NA                            | —                                        | —      |
| trans-1,3-Dichloropropene                       | <0.50                         | <0.50                         | <0.50                         | NA                            | —                                        | —      |
| cis-1,2-Dichloroethene                          | <0.50                         | <0.50                         | <0.50                         | NA                            | 70.0                                     | 35.0   |
| trans-1,2-Dichloroethene                        | <0.75                         | <0.75                         | <0.75                         | NA                            | 100.0                                    | 50.0   |
| trans-1,4-Dichloro-2-butene                     | <2.5                          | <2.5                          | <2.5                          | NA                            | —                                        | —      |
| m&p-Xylenes                                     | <1.0                          | <1.0                          | <1.0                          | NA                            | 10000.0                                  | 5000.0 |
| o-Chlorotoluene                                 | <2.5                          | <2.5                          | <2.5                          | NA                            | —                                        | —      |
| o-Xylene                                        | <1.0                          | <1.0                          | <1.0                          | NA                            | 10000.0                                  | 5000.0 |
| n-Butylbenzene                                  | <0.50                         | <0.50                         | <0.50                         | NA                            | —                                        | —      |
| n-Propylbenzene                                 | <0.50                         | <0.50                         | <0.50                         | NA                            | —                                        | —      |
| p-Chlorotoluene                                 | <2.5                          | <2.5                          | <2.5                          | NA                            | —                                        | —      |
| p-Isopropyltoluene                              | <0.5                          | <0.50                         | <0.50                         | NA                            | —                                        | —      |
| sec-Butylbenzene                                | <0.5                          | <0.50                         | <0.50                         | NA                            | —                                        | —      |
| tert-Butylbenzene                               | <2.5                          | <2.5                          | <2.5                          | NA                            | —                                        | —      |

\* = Indicates contaminants of special concern to the Department of Environmental Conservation and the Department of Health. Contact the Department of Environmental Conservation if these contaminants are found in a drinking water source for additional information concerning resampling and risk notification.

— = Indicates that a regulatory standard has not been established for that compound.

\*\* Secondary Groundwater Quality Standard

**Bold italicized** text indicates that the laboratory method detection limit exceeds the applicable Enforcement Standard.

**Italicized** text indicates that the laboratory method detection limit exceeds the applicable PAL.

TABLE 4B  
Sediment Analytical Results  
Semi-VOCs  
U.S. Tsubaki, Bennington, VT

| Sample ID                                      | SED-3                          | SED-4            | EPA Region 9 PRGs <sup>1</sup> |                      |                     | Ontario Sediment Quality Guidelines (8/93) |                       |
|------------------------------------------------|--------------------------------|------------------|--------------------------------|----------------------|---------------------|--------------------------------------------|-----------------------|
|                                                | Date Collected<br>Collected By | 4/14/2006<br>MGW | 4/14/2006<br>MGW               | Residential<br>µg/kg | Industrial<br>µg/kg | DAF 20 <sup>3</sup><br>µg/kg               | Lowest Effect<br>µg/g |
| <b>Semi Volatile Organic Compounds (µg/kg)</b> |                                |                  |                                |                      |                     |                                            |                       |
| Acenaphthene                                   | <640                           | <200             | 3,700,000                      | 29,000,000           | 570,000             | —                                          | —                     |
| 1,2,4-Trichlorobenzene                         | <640                           | <200             | 62,000                         | 220,000              | 500                 | —                                          | —                     |
| Hexachlorobenzene                              | <640                           | <200             | 300                            | 1100                 | 200                 | —                                          | —                     |
| Bis(2-chloroethyl)ether                        | <640                           | <200             | 220                            | 580                  | 0.4                 | —                                          | —                     |
| 2-Chloronaphthalene                            | <640                           | <200             | —                              | —                    | —                   | —                                          | —                     |
| 1,2-Dichlorobenzene                            | <640                           | <200             | 600,000                        | 600,000              | 17,000              | —                                          | —                     |
| 1,3-Dichlorobenzene                            | <640                           | <200             | 530,000                        | 600,000              | —                   | —                                          | —                     |
| 1,4-Dichlorobenzene                            | <640                           | <200             | 3400                           | 7900                 | 200                 | —                                          | —                     |
| 3,3'-Dichlorobenzidine                         | <1300                          | <410             | 1100                           | 3800                 | 7                   | —                                          | —                     |
| 2,4-Dinitrotoluene                             | <640                           | <200             | 720                            | 2500                 | 0.8                 | —                                          | —                     |
| 2,6-Dinitrotoluene                             | <640                           | <200             | 720                            | 2500                 | 0.8                 | —                                          | —                     |
| Azobenzene                                     | <640                           | <200             | 4400                           | 16,000               | —                   | —                                          | —                     |
| Fluoranthene                                   | 3400                           | 1400             | 2,300,000                      | 22,000,000           | 4,300,000           | —                                          | —                     |
| 4-Bromophenyl phenyl ether                     | <640                           | <200             | —                              | —                    | —                   | —                                          | —                     |
| Bis(2-chloroethoxy) methane                    | <640                           | <200             | —                              | —                    | —                   | —                                          | —                     |
| Hexachlorobutadiene                            | <640                           | <200             | 6200                           | 22,000               | 2000                | —                                          | —                     |
| Hexachloroethane                               | <640                           | <200             | 35000                          | 120,000              | 500                 | —                                          | —                     |
| Isophorone                                     | <640                           | <200             | 510,000                        | 510,000              | 500                 | —                                          | —                     |
| Naphthalene                                    | <640                           | <200             | 56000                          | 190,000              | 84,000              | —                                          | —                     |
| Nitrobenzene                                   | <640                           | <200             | 20,000                         | 100,000              | 100                 | —                                          | —                     |
| Bis(2-ethylhexyl)phthalate                     | 2100                           | <200             | 35,000                         | 120,000              | —                   | —                                          | —                     |
| Butyl benzyl phthalate                         | <640                           | <200             | 12,000,000                     | 10,000,000           | —                   | —                                          | —                     |
| Di-n-butylphthalate                            | <640                           | <200             | —                              | —                    | —                   | —                                          | —                     |
| Di-n-octylphthalate                            | <640                           | <200             | 2,400,000                      | 25,000,000           | 10,000,000          | —                                          | —                     |
| Diethyl phthalate                              | <640                           | <200             | 49,000,000                     | 100,000,000          | —                   | —                                          | —                     |
| Dimethyl phthalate                             | <640                           | <200             | 100,000,000                    | 100,000,000          | —                   | —                                          | —                     |
| Benzo(a)anthracene                             | 1200                           | 490              | 62,000                         | 2100                 | 2000                | —                                          | —                     |
| Benzo(a)pyrene                                 | 1500                           | 510              | 6.2                            | 210                  | 800                 | —                                          | —                     |
| Benzo(b)fluoranthene                           | 2,000                          | 660              | 620                            | 2100                 | 500                 | —                                          | —                     |
| Benzo(k)fluoranthene                           | 900                            | 340              | 6200                           | 21000                | 49000               | —                                          | —                     |
| Chrysene                                       | 1700                           | 690              | 62000                          | 210000               | 160000              | —                                          | —                     |
| Acenaphthylene                                 | <640                           | <200             | —                              | —                    | —                   | —                                          | —                     |
| Anthracene                                     | <640                           | <200             | 22,000,000                     | 100,000,000          | 12,000,000          | —                                          | —                     |
| Benzo(ghi)perylene                             | <640                           | <200             | —                              | —                    | —                   | —                                          | —                     |
| Fluorene                                       | <640                           | <200             | 2,700,000                      | 26,000,000           | 560,000             | —                                          | —                     |
| Phenanthrene                                   | 1700                           | 900              | —                              | —                    | —                   | —                                          | —                     |
| Dibenzo(a,h)anthracene                         | <640                           | <200             | 62                             | 210                  | 2,000               | —                                          | —                     |
| Indeno (1,2,3-cd) pyrene                       | 650                            | <200             | 620                            | 2100                 | 14,000              | —                                          | —                     |
| Pyrene                                         | 3500                           | 1700             | 2,300,000                      | 290,000,000          | 4,200,000           | —                                          | —                     |
| Aniline                                        | <640                           | <200             | 85,000                         | 300,000              | —                   | —                                          | —                     |
| 4-Chloroaniline                                | <1300                          | <410             | 2,400,000                      | 2,500,000            | 700                 | —                                          | —                     |
| Dibenzofuran                                   | <640                           | <200             | 150,000                        | 1,600,000            | —                   | —                                          | —                     |
| 2-Methylnaphthalene                            | <640                           | <200             | —                              | —                    | —                   | —                                          | —                     |
| Acetophenone                                   | <640                           | <200             | —                              | —                    | —                   | —                                          | —                     |
| 2,4,6-Trichlorophenol                          | <640                           | <200             | 6100                           | 62000                | 200                 | —                                          | —                     |
| 2-Chlorophenol                                 | <640                           | <200             | 63,000                         | 240,000              | 4,000               | —                                          | —                     |
| 2,4-Dichlorophenol                             | <640                           | <200             | 180,000                        | 1,800,000            | 1,000               | —                                          | —                     |
| 2,4-Dimethylphenol                             | <640                           | <200             | 1,200,000                      | 12,000,000           | 9,000               | —                                          | —                     |
| 2-Nitrophenol                                  | <640                           | <200             | —                              | —                    | —                   | —                                          | —                     |
| 4-Nitrophenol                                  | <3,200                         | <1,000           | —                              | —                    | —                   | —                                          | —                     |
| 2,4-Dinitrophenol                              | <640                           | <200             | 120,000                        | 1,200,000            | 300                 | —                                          | —                     |
| Pentachlorophenol                              | <640                           | <200             | 3,000                          | 9,000                | 30                  | —                                          | —                     |
| Phenol                                         | <640                           | <200             | 18,000,000                     | 100,000,000          | 100,000             | —                                          | —                     |
| 2-Methylphenol                                 | <640                           | <200             | 3,100,000                      | 31,000,000           | 15,000              | —                                          | —                     |
| 3-Methylphenol/4-Methylphenol                  | <640                           | <200             | 310,000                        | 3,100,000            | —                   | —                                          | —                     |
| 2,4,5-Trichlorophenol                          | <640                           | <200             | 6,100,000                      | 62,000,000           | 270,000             | —                                          | —                     |

(1) In Vermont, adequate site characterization must be performed to demonstrate that sediments are not adversely affected by contaminants at the site. Sediment laboratory analytical results have been compared to screening values contained in *Guidelines for the Protection and Management of Aquatic Sediment Quality in Ontario (Canada) (August 1993)*.

µg/kg = micrograms per kilogram

— = Indicates that a standard has not been published for that compound.

<170 = Indicates that the compound was not detected at a concentration above the laboratory method detection limit.

**Bold** text indicates that the concentration detected exceeds the applicable screening value.

## ANALYTICAL REPORT

Job Number: 360-2767-1

Job Description: T&B Westfield-B-360

For:  
Tighe & Bond  
53 Southampton Road  
Westfield, MA 01085

Attention: Mr. Matt Wagner

*Joseph A. Chimi*

---

Joe Chimi  
Report Production Representative  
[jchimi@stl-inc.com](mailto:jchimi@stl-inc.com)  
04/26/2006

Project Manager: Lisa Worthington

The test results in this report meet all NELAP requirements for accredited parameters. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced except in full, and with written approval from the laboratory. STL Westfield Certifications and Approvals: MADEP MA014, RIDOH57, CTDPH 0494, VT DECWSD, NH DES 253903-A, NELAP FL E87912 TOX, NELAP NJ MA008 TOX, NELAP NY 10843, NY DOH 10843.

Total number of pages in this report: 44

**Severn Trent Laboratories, Inc.**

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Tel (413) 572-4000 Fax (413) 572-3707 [www.stl-inc.com](http://www.stl-inc.com) **Page 1 of 39**

## **CASE NARRATIVE**

**Client: Tighe & Bond**

**Report Number: 360-2767**

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues as stipulated in the MCP reporting requirements.

In order to facilitate report review, a separate MCP Analytical Method Report Certification Form is included for each method requested.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy "MCP program" reporting limits in some cases if the "adjusted" RL is greater than the applicable MCP standards or criterion to which the concentration is being compared. Such increases in the RLs are an unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes, which exceed the calibration range.

Calculations are performed before rounding to avoid round-off errors in calculated results. All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

The project samples were received on 04/17/06 the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers upon receipt at the laboratory was 4.8°C.

### **SW846 8260B**

All QA/QC procedures required for the specified analytical method were performed as per section B of the MADEP MCP analytical method report Certification form.

All QC performance standards and recommendations for this specific method were achieved with the exception of:

The following compounds recovered outside method control limits in the LCS and/or LCSD: Acetone, Carbon disulfide and Chloroethane (low in both the LCS and LCSD) and Bromomethane and Methyl Ethyl Ketone (low in the LCS). Refer to pages 28-29 for details.

### **SW846 8270C**

All QA/QC procedures required for the specified analytical method were performed as per section B of the MADEP MCP analytical method report Certification form.

All QC performance standards and recommendations for this specific method were achieved with the exception of:

Continuing Calibration did not meet criteria for the following compounds: 2,4-Dinitrophenol, Indeno[1,2,3-cd]pyrene, Dibenz(a,h)anthracene and Benzo[g,h,i]perylene.

The RPD for 2,4,5-Trichlorophenol was outside method control limits for the LCS/LCSD.

The % recovery for the LCD recovered lower than expected. This check standard is used to monitor the precision of the extraction. Except for the RPD outlier noted above, all other RPDs were within control limits. Unfortunately, the data system also flags the low %R in the LCD. Refer to pages 33-34 for more details.

The surrogate Phenol-d5 recovered low and outside method control limits in samples 360-2767-(1-2) and the LCS and LCSD (29, 26, 29 and 28%, respectively). Per MCP, re-extraction is only required if two or more surrogates from any one fraction or any single surrogate falls below 10%.

General method information:

Due to their black, viscous matrices, samples 360-2767-(1, 4) were analyzed at a 5x dilution.

Due to surrogate recoveries outside method control limits at 1x, samples 360-2767-(5-6) were analyzed at a 10x dilution. Consequently, all surrogates were diluted outside method control limits.

#### **SW846 6020**

All QA/QC procedures required for the specified analytical method were performed as per section B of the MADEP MCP analytical method report Certification form.

All QC performance standards and recommendations for this specific method were achieved.

General method information:

At the request of the client, an abbreviated/modified MCP analyte list was reported for this job. Only Arsenic was requested.

Due to high concentration, the following samples were analyzed at dilutions: 360-2767-2 (20x) and 360-2767-3 (10x).

# MADEP MCP Analytical Method Report Certification Form

Laboratory Name: **Severn Trent Laboratory (STL) Westfield** Project #: **360-2767**

Project Location: **US Tsubaki** MADEP RTN<sup>1</sup>:

This form provides certifications for the following data set:[list Laboratory Sample ID Number(s)]

360-2767-(5-7)

| Sample Matrices:                                                                                                                                                                                           | Groundwater | Soil/Sediment | Drinking Water | Other:                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------|----------------|---------------------------------------|
| <b>MCP SW-846 Methods Used</b>                                                                                                                                                                             | 8260B( x )  | 8151A ( )     | 8330 ( )       | 6010B ( ) 7470A/1A ( ) Other ( )      |
|                                                                                                                                                                                                            | 8270C( )    | 8081A ( )     | VPH ( )        | 6020 ( ) 9014M <sup>2</sup> /9012 ( ) |
| As specified in MADEP Compendium of Analytical Methods. (check all that apply)                                                                                                                             | 8082 ( )    | 8021B ( )     | EPH ( )        | 7000 S <sup>3</sup> ( ) 7196A( )      |
| 1 List Release Tracking Number (RTN), if known<br>2 M - SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method<br>3 S - SW-846 Methods 7000 Series List individual method and analyte. |             |               |                |                                       |

**An affirmative response to questions A, B, C and D is required for "Presumptive Certainty" status**

|   |                                                                                                                                                                                                                                                                                                      |                                                                                                               |
|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| A | Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?                                                                                                                                                    | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <sup>1</sup>                              |
| B | Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?                                                  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <sup>1</sup>                              |
| C | Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in Section 2.0 (a), (b), (c) and (d) of the MADEP document CAM VII A, " Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A <input type="checkbox"/> No <sup>1</sup> |
| D | <b>VPH and EPH methods only:</b> Was the VPH or EPH Method conducted without significant modifications (see Section 11.3 of respective Methods)?                                                                                                                                                     | Yes <input type="checkbox"/> N/A <input type="checkbox"/> No <sup>1</sup>                                     |

**A response to questions E and F below is required for "Presumptive Certainty" status**

|   |                                                                                            |                                                                                                               |
|---|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| E | Were all QC performance standards and recommendations for the specified methods achieved?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                           |
| F | Were results for all analyte-list compounds/elements for the specified method(s) reported? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A <input type="checkbox"/> No <sup>1</sup> |

<sup>1</sup> All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature:

Position: Laboratory Director

Printed Name: Steven C. Hartmann

Date: 4/26/06

CAM VII A, Rev 3.2

April-04

|                     |            |                                                                      |                                                                                |                                                                                                      |                                                                                                                    |
|---------------------|------------|----------------------------------------------------------------------|--------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| <b>SEVERN TRENT</b> | <b>STL</b> | MADEP MA014<br>NY DOH 10843<br>RI DOH 57<br>CT DPH 0494<br>VT DECWSD | NELAP FL E87912 TOX<br>NELAP NJ MA008 TOX<br>NELAP NY 10843<br>NH DES 253901-A | STL Westfield<br>53 Southampton Rd,<br>Westfield, MA 01085<br>Tel:(413)572-4000<br>Fax:(413)572-3707 | STL Billerica Service Center<br>148 Rangeway Rd<br>N.Billerica, MA 01862<br>Tel:(978)667-1400<br>Fax:(978)667-7871 |
|---------------------|------------|----------------------------------------------------------------------|--------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|



# MADEP MCP Analytical Method Report Certification Form

Laboratory Name: **Severn Trent Laboratory (STL) Westfield** Project #: **360-2767**

Project Location: **US Tsubaki** MADEP RTN<sup>1</sup>:

This form provides certifications for the following data set:[list Laboratory Sample ID Number(s)]

360-2767-(1, 4-6)

| Sample Matrices:                                                                      | Groundwater | Soil/Sediment | Drinking Water | Other:                              |
|---------------------------------------------------------------------------------------|-------------|---------------|----------------|-------------------------------------|
| <b>MCP SW-846</b>                                                                     | 8260B( )    | 8151A( )      | 8330( )        | 6010B( ) 7470A/1A( ) Other( )       |
| <b>Methods Used</b>                                                                   | 8270C(x)    | 8081A( )      | VPH( )         | 6020( ) 9014M <sup>2</sup> /9012( ) |
| <b>As specified in MADEP Compendium of Analytical Methods. (check all that apply)</b> | 8082( )     | 8021B( )      | EPH( )         | 7000 S <sup>3</sup> ( ) 7196A( )    |
| 1 List Release Tracking Number (RTN), if known                                        |             |               |                |                                     |
| 2 M - SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method      |             |               |                |                                     |
| 3 S - SW-846 Methods 7000 Series List individual method and analyte.                  |             |               |                |                                     |

**An affirmative response to questions A, B, C and D is required for "Presumptive Certainty" status**

|          |                                                                                                                                                                                                                                                                                                     |                                         |                                                         |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|---------------------------------------------------------|
| <b>A</b> | Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?                                                                                                                                                   | <input checked="" type="checkbox"/> Yes | No <sup>1</sup>                                         |
| <b>B</b> | Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?                                                 | <input checked="" type="checkbox"/> Yes | No <sup>1</sup>                                         |
| <b>C</b> | Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in Section 2.0 (a), (b), (c) and (d) of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"? | <input checked="" type="checkbox"/> Yes | N/A No <sup>1</sup>                                     |
| <b>D</b> | <b>VPH and EPH methods only:</b> Was the VPH or EPH Method conducted without significant modifications (see Section 11.3 of respective Methods)?                                                                                                                                                    | Yes                                     | <input checked="" type="checkbox"/> N/A No <sup>1</sup> |

**A response to questions E and F below is required for "Presumptive Certainty" status**

|          |                                                                                            |                                         |                                                         |
|----------|--------------------------------------------------------------------------------------------|-----------------------------------------|---------------------------------------------------------|
| <b>E</b> | Were all QC performance standards and recommendations for the specified methods achieved?  | <input checked="" type="checkbox"/> Yes | <input checked="" type="checkbox"/> No                  |
| <b>F</b> | Were results for all analyte-list compounds/elements for the specified method(s) reported? | <input checked="" type="checkbox"/> Yes | <input checked="" type="checkbox"/> N/A No <sup>1</sup> |

<sup>1</sup> All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature:

Position: Laboratory Director

Printed Name: Steven C. Hartmann

Date: 4/26/06

CAM VII A, Rev 3.2

April-04

SEVERN  
TRENT

**STL**

|              |                     |
|--------------|---------------------|
| MADEP MA014  | NELAP FL E87912 TOX |
| NY DOH 10843 | NELAP NJ MA008 TOX  |
| RI DOH 57    | NELAP NY 10843      |
| CT DPH 0494  | NH DES 253901-A     |
| VT DECWSD    |                     |



STL Westfield

53 Southampton Rd,  
Westfield, MA 01085

STL Billerica Service Center

148 Rangeway Rd  
N.Billerica, MA 01862

Tel:(413)572-4000  
Fax:(413)572-3707

Tel:(978)667-1400  
Fax:(978)667-7871

# MADEP MCP Analytical Method Report Certification Form

Laboratory Name: **Severn Trent Laboratory (STL) Westfield** Project #: **360-2767**

Project Location: **US Tsubaki** MADEP RTN<sup>1</sup>:

This form provides certifications for the following data set:[list Laboratory Sample ID Number(s)]

360-2767-(2-3)

| Sample Matrices:                                                                      | Groundwater | Soil/Sediment | Drinking Water | Other:                                |
|---------------------------------------------------------------------------------------|-------------|---------------|----------------|---------------------------------------|
| <b>MCP SW-846</b>                                                                     | 8260B( )    | 8151A( )      | 8330( )        | 6010B( ) 7470A/1A( ) Other( )         |
| <b>Methods Used</b>                                                                   | 8270C( )    | 8081A( )      | VPH( )         | 6020( x ) 9014M <sup>2</sup> /9012( ) |
| <b>As specified in MADEP Compendium of Analytical Methods. (check all that apply)</b> | 8082( )     | 8021B( )      | EPH( )         | 7000 S <sup>3</sup> ( ) 7196A( )      |
| 1 List Release Tracking Number (RTN), if known                                        |             |               |                |                                       |
| 2 M - SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method      |             |               |                |                                       |
| 3 S - SW-846 Methods 7000 Series List individual method and analyte.                  |             |               |                |                                       |

**An affirmative response to questions A, B, C and D is required for "Presumptive Certainty" status**

|          |                                                                                                                                                                                                                                                                                                      |                                                                                                               |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| <b>A</b> | Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?                                                                                                                                                    | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <sup>1</sup>                              |
| <b>B</b> | Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?                                                  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <sup>1</sup>                              |
| <b>C</b> | Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in Section 2.0 (a), (b), (c) and (d) of the MADEP document CAM VII A, " Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A <input type="checkbox"/> No <sup>1</sup> |
| <b>D</b> | <b>VPH and EPH methods only:</b> Was the VPH or EPH Method conducted without significant modifications (see Section 11.3 of respective Methods)?                                                                                                                                                     | Yes <input type="checkbox"/> N/A <input checked="" type="checkbox"/> No <sup>1</sup>                          |

**A response to questions E and F below is required for "Presumptive Certainty" status**

|          |                                                                                            |                                                                                      |
|----------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>E</b> | Were all QC performance standards and recommendations for the specified methods achieved?  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <sup>1</sup>     |
| <b>F</b> | Were results for all analyte-list compounds/elements for the specified method(s) reported? | Yes <input type="checkbox"/> N/A <input checked="" type="checkbox"/> No <sup>1</sup> |

<sup>1</sup> All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: Steven C. Hartmann Position: Laboratory Director

Printed Name: Steven C. Hartmann

Date: 4/26/06

CAM VII A, Rev 3.2

April-04

|                         |                                                                      |                                                                                     |                                                                                                      |                                                                                                                    |
|-------------------------|----------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| <b>SEVERN<br/>TRENT</b> | MADEP MA014<br>NY DOH 10843<br>RI DOH 57<br>CT DPH 0494<br>VT DECWSD | NELAP FL E87912 TOX<br>NELAP NJ MA008 TOX<br>NELAP NY 10843<br>NH DES 253901-A      | STL Westfield<br>53 Southampton Rd,<br>Westfield, MA 01085<br>Tel:(413)572-4000<br>Fax:(413)572-3707 | STL Billerica Service Center<br>148 Rangeway Rd<br>N.Billerica, MA 01862<br>Tel:(978)667-1400<br>Fax:(978)667-7871 |
| <b>STL</b>              |                                                                      |  |                                                                                                      |                                                                                                                    |

## METHOD SUMMARY

Client: Tighe & Bond

Job Number: 360-2767-1

| Description                                                                                       | Lab Location       | Method              | Preparation Method        |
|---------------------------------------------------------------------------------------------------|--------------------|---------------------|---------------------------|
| <b>Matrix:</b> Solid                                                                              |                    |                     |                           |
| Volatile Organic Compounds by GC/MS                                                               | STL-WES            | SW846 8260B         |                           |
| Purge-and-Trap for Aqueous Samples/High<br>Closed System Purge & Trap/Methanol                    | STL-WES<br>STL-WES |                     | SW846 5030B<br>SW846 5035 |
| Semivolatile Organic Compounds by GCMS - Low Levels<br>Microwave Extraction                       | STL-WES<br>STL-WES | SW846 8270C         | SW846 3546                |
| Inductively Coupled Plasma - Mass Spectrometry<br>Acid Digestion of Sediments, Sludges, and Soils | STL-WES<br>STL-WES | SW846 6020          | SW846 3050B               |
| Percent Moisture                                                                                  | STL-WES            | EPA PercentMoisture |                           |

### LAB REFERENCES:

STL-WES = STL-Westfield

### METHOD REFERENCES:

EPA - US Environmental Protection Agency

SW846 - "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986  
And Its Updates.

## METHOD / ANALYST SUMMARY

Client: Tighe & Bond

Job Number: 360-2767-1

| Method              | Analyst          | Analyst ID |
|---------------------|------------------|------------|
| SW846 8260B         | Cao, Xingluan    | XC         |
| SW846 8270C         | Weigel, Brian    | BW         |
| SW846 6020          | Balicki, Charles | CB         |
| EPA PercentMoisture | Boles, Amber R   | ARB        |

## SAMPLE SUMMARY

Client: Tighe & Bond

Job Number: 360-2767-1

| Lab Sample ID | Client Sample ID | Client Matrix | Date/Time Sampled | Date/Time Received |
|---------------|------------------|---------------|-------------------|--------------------|
| 360-2767-1    | SED-4            | Solid         | 04/14/2006 0915   | 04/17/2006 0955    |
| 360-2767-2    | Background-1     | Solid         | 04/14/2006 0930   | 04/17/2006 0955    |
| 360-2767-3    | Background-2     | Solid         | 04/14/2006 0945   | 04/17/2006 0955    |
| 360-2767-4    | SED-3            | Solid         | 04/14/2006 1000   | 04/17/2006 0955    |
| 360-2767-5    | B-6R(0-0.5)      | Solid         | 04/14/2006 1200   | 04/17/2006 0955    |
| 360-2767-6    | B-3R(0-0.5)      | Solid         | 04/14/2006 1300   | 04/17/2006 0955    |
| 360-2767-7    | Trip Blanks      | Solid         | 04/14/2006 1200   | 04/17/2006 0955    |

# **SAMPLE RESULTS**

Mr. Matt Wagner  
 Tighe & Bond  
 53 Southampton Road  
 Westfield, MA 01085

Job Number: 360-2767-1

**Client Sample ID: SED-4**

**Lab Sample ID: 360-2767-1**

Date Sampled: 04/14/2006 0915  
 Date Received: 04/17/2006 0955  
 Percent Solids: 80

| Analyte                    | Result/Qualifier | Unit    | RL                             | Dilution                       |
|----------------------------|------------------|---------|--------------------------------|--------------------------------|
| <b>Method: 8270C</b>       |                  |         | Date Prepared: 04/17/2006 1635 | Date Analyzed: 04/18/2006 1046 |
| Aniline                    | ND               | * ug/Kg | 200                            | 5.0                            |
| Phenol                     | ND               | ug/Kg   | 200                            | 5.0                            |
| Bis(2-chloroethyl)ether    | ND               | ug/Kg   | 200                            | 5.0                            |
| 1,3-Dichlorobenzene        | ND               | ug/Kg   | 200                            | 5.0                            |
| 1,4-Dichlorobenzene        | ND               | * ug/Kg | 200                            | 5.0                            |
| 1,2-Dichlorobenzene        | ND               | * ug/Kg | 200                            | 5.0                            |
| 2-Methylphenol             | ND               | ug/Kg   | 200                            | 5.0                            |
| Hexachloroethane           | ND               | ug/Kg   | 200                            | 5.0                            |
| 3 & 4 Methylphenol         | ND               | ug/Kg   | 200                            | 5.0                            |
| 2-Chlorophenol             | ND               | ug/Kg   | 200                            | 5.0                            |
| Nitrobenzene               | ND               | ug/Kg   | 200                            | 5.0                            |
| Bis(2-chloroethoxy)methane | ND               | ug/Kg   | 200                            | 5.0                            |
| 1,2,4-Trichlorobenzene     | ND               | * ug/Kg | 200                            | 5.0                            |
| Isophorone                 | ND               | ug/Kg   | 200                            | 5.0                            |
| 2,4-Dimethylphenol         | ND               | ug/Kg   | 200                            | 5.0                            |
| Hexachlorobutadiene        | ND               | * ug/Kg | 200                            | 5.0                            |
| Naphthalene                | ND               | ug/Kg   | 200                            | 5.0                            |
| 2,4-Dichlorophenol         | ND               | ug/Kg   | 200                            | 5.0                            |
| 4-Chloroaniline            | ND               | * ug/Kg | 410                            | 5.0                            |
| 2,4,6-Trichlorophenol      | ND               | ug/Kg   | 200                            | 5.0                            |
| 2,4,5-Trichlorophenol      | ND               | * ug/Kg | 200                            | 5.0                            |
| 2-Methylnaphthalene        | ND               | ug/Kg   | 200                            | 5.0                            |
| 2-Chloronaphthalene        | ND               | ug/Kg   | 200                            | 5.0                            |
| 2,6-Dinitrotoluene         | ND               | ug/Kg   | 200                            | 5.0                            |
| 2-Nitrophenol              | ND               | ug/Kg   | 200                            | 5.0                            |
| 2,4-Dinitrophenol          | ND               | * ug/Kg | 200                            | 5.0                            |
| Acenaphthylene             | ND               | ug/Kg   | 200                            | 5.0                            |
| 2,4-Dinitrotoluene         | ND               | ug/Kg   | 200                            | 5.0                            |
| Acenaphthene               | ND               | * ug/Kg | 200                            | 5.0                            |
| Dibenzofuran               | ND               | ug/Kg   | 200                            | 5.0                            |
| 4-Nitrophenol              | ND               | * ug/Kg | 1000                           | 5.0                            |
| Fluorene                   | ND               | ug/Kg   | 200                            | 5.0                            |
| 4-Bromophenyl phenyl ether | ND               | ug/Kg   | 200                            | 5.0                            |
| Hexachlorobenzene          | ND               | ug/Kg   | 200                            | 5.0                            |
| Diethyl phthalate          | ND               | ug/Kg   | 200                            | 5.0                            |
| Pentachlorophenol          | ND               | ug/Kg   | 200                            | 5.0                            |
| Phenanthrene               | 900              | ug/Kg   | 200                            | 5.0                            |
| Anthracene                 | ND               | * ug/Kg | 200                            | 5.0                            |
| Di-n-butyl phthalate       | ND               | ug/Kg   | 200                            | 5.0                            |
| Fluoranthene               | 1400             | ug/Kg   | 200                            | 5.0                            |
| Pyrene                     | 1700             | ug/Kg   | 200                            | 5.0                            |
| Butyl benzyl phthalate     | ND               | ug/Kg   | 200                            | 5.0                            |
| Benzo[a]anthracene         | 490              | ug/Kg   | 200                            | 5.0                            |

Mr. Matt Wagner  
 Tighe & Bond  
 53 Southampton Road  
 Westfield, MA 01085

Job Number: 360-2767-1

**Client Sample ID: SED-4**

**Lab Sample ID: 360-2767-1**

Date Sampled: 04/14/2006 0915  
 Date Received: 04/17/2006 0955  
 Percent Solids: 80

| Analyte                        | Result/Qualifier | Unit            | RL                | Dilution        |
|--------------------------------|------------------|-----------------|-------------------|-----------------|
| <b>Method: 8270C</b>           | Date Prepared:   | 04/17/2006 1635 | Date Analyzed:    | 04/18/2006 1046 |
| Chrysene                       | 690              | ug/Kg           | 200               | 5.0             |
| 3,3'-Dichlorobenzidine         | ND               | ug/Kg           | 410               | 5.0             |
| Di-n-octyl phthalate           | ND               | ug/Kg           | 200               | 5.0             |
| Benzo[b]fluoranthene           | 660              | ug/Kg           | 200               | 5.0             |
| Benzo[k]fluoranthene           | 340              | ug/Kg           | 200               | 5.0             |
| Benzo[a]pyrene                 | 510              | ug/Kg           | 200               | 5.0             |
| Indeno[1,2,3-cd]pyrene         | ND               | *               | 200               | 5.0             |
| Dibenz(a,h)anthracene          | ND               | *               | 200               | 5.0             |
| Benzo[g,h,i]perylene           | ND               | *               | 200               | 5.0             |
| Acetophenone                   | ND               | ug/Kg           | 200               | 5.0             |
| Azobenzene                     | ND               | *               | 200               | 5.0             |
| Dimethyl phthalate             | ND               | ug/Kg           | 200               | 5.0             |
| Bis(2-ethylhexyl) phthalate    | ND               | ug/Kg           | 200               | 5.0             |
| 2,2'-oxybis[1-chloropropane]   | ND               | ug/Kg           | 200               | 5.0             |
| Surrogate                      |                  |                 | Acceptance Limits |                 |
| 2,4,6-Tribromophenol           | 29               | *               | %                 | 30 - 130        |
| 2-Fluorobiphenyl               | 72               |                 | %                 | 30 - 130        |
| 2-Fluorophenol                 | 70               |                 | %                 | 30 - 130        |
| Nitrobenzene-d5                | 67               |                 | %                 | 30 - 130        |
| Phenol-d5                      | 68               |                 | %                 | 30 - 130        |
| Terphenyl-d14                  | 85               |                 | %                 | 30 - 130        |
| <b>Method: PercentMoisture</b> | Date Prepared:   |                 | Date Analyzed:    | 04/18/2006 1758 |
| Percent Moisture               | 20               | %               | 1.0               | 1.0             |

Mr. Matt Wagner  
Tighe & Bond  
53 Southampton Road  
Westfield, MA 01085

Job Number: 360-2767-1

**Client Sample ID: Background-1**

**Lab Sample ID: 360-2767-2**

Date Sampled: 04/14/2006 0930  
Date Received: 04/17/2006 0955  
Percent Solids: 76

| <b>Analyte</b>                 | <b>Result/Qualifier</b>        | <b>Unit</b>                    | <b>RL</b>                      | <b>Dilution</b> |
|--------------------------------|--------------------------------|--------------------------------|--------------------------------|-----------------|
| <b>Method:</b> 6020            | Date Prepared: 04/18/2006 0901 | Date Analyzed: 04/20/2006 1437 |                                |                 |
| Arsenic                        | 1800                           | ug/Kg                          | 1500                           | 20              |
| <b>Method:</b> PercentMoisture | Date Prepared:                 |                                | Date Analyzed: 04/18/2006 1758 |                 |
| Percent Moisture               | 24                             | %                              | 1.0                            | 1.0             |

Mr. Matt Wagner  
Tighe & Bond  
53 Southampton Road  
Westfield, MA 01085

Job Number: 360-2767-1

**Client Sample ID: Background-2**

**Lab Sample ID: 360-2767-3**

Date Sampled: 04/14/2006 0945  
Date Received: 04/17/2006 0955  
Percent Solids: 72

| Analyte                        | Result/Qualifier               | Unit  | RL                             | Dilution |
|--------------------------------|--------------------------------|-------|--------------------------------|----------|
| <b>Method: 6020</b>            | Date Prepared: 04/18/2006 0901 |       | Date Analyzed: 04/20/2006 1448 |          |
| Arsenic                        | 1000                           | ug/Kg | 810                            | 10       |
| <b>Method: PercentMoisture</b> | Date Prepared:                 |       | Date Analyzed: 04/18/2006 1758 |          |
| Percent Moisture               | 28                             | %     | 1.0                            | 1.0      |

Mr. Matt Wagner  
 Tighe & Bond  
 53 Southampton Road  
 Westfield, MA 01085

Job Number: 360-2767-1

**Client Sample ID: SED-3**

**Lab Sample ID: 360-2767-4**

Date Sampled: 04/14/2006 1000  
 Date Received: 04/17/2006 0955  
 Percent Solids: 25

| Analyte                    | Result/Qualifier | Unit    | RL                             | Dilution                       |
|----------------------------|------------------|---------|--------------------------------|--------------------------------|
| <b>Method: 8270C</b>       |                  |         | Date Prepared: 04/17/2006 1635 | Date Analyzed: 04/18/2006 1113 |
| Aniline                    | ND               | * ug/Kg | 640                            | 5.0                            |
| Phenol                     | ND               | ug/Kg   | 640                            | 5.0                            |
| Bis(2-chloroethyl)ether    | ND               | ug/Kg   | 640                            | 5.0                            |
| 1,3-Dichlorobenzene        | ND               | ug/Kg   | 640                            | 5.0                            |
| 1,4-Dichlorobenzene        | ND               | * ug/Kg | 640                            | 5.0                            |
| 1,2-Dichlorobenzene        | ND               | * ug/Kg | 640                            | 5.0                            |
| 2-Methylphenol             | ND               | ug/Kg   | 640                            | 5.0                            |
| Hexachloroethane           | ND               | ug/Kg   | 640                            | 5.0                            |
| 3 & 4 Methylphenol         | ND               | ug/Kg   | 640                            | 5.0                            |
| 2-Chlorophenol             | ND               | ug/Kg   | 640                            | 5.0                            |
| Nitrobenzene               | ND               | ug/Kg   | 640                            | 5.0                            |
| Bis(2-chloroethoxy)methane | ND               | ug/Kg   | 640                            | 5.0                            |
| 1,2,4-Trichlorobenzene     | ND               | * ug/Kg | 640                            | 5.0                            |
| Isophorone                 | ND               | ug/Kg   | 640                            | 5.0                            |
| 2,4-Dimethylphenol         | ND               | ug/Kg   | 640                            | 5.0                            |
| Hexachlorobutadiene        | ND               | * ug/Kg | 640                            | 5.0                            |
| Naphthalene                | ND               | ug/Kg   | 640                            | 5.0                            |
| 2,4-Dichlorophenol         | ND               | ug/Kg   | 640                            | 5.0                            |
| 4-Chloroaniline            | ND               | * ug/Kg | 1300                           | 5.0                            |
| 2,4,6-Trichlorophenol      | ND               | ug/Kg   | 640                            | 5.0                            |
| 2,4,5-Trichlorophenol      | ND               | * ug/Kg | 640                            | 5.0                            |
| 2-Methylnaphthalene        | ND               | ug/Kg   | 640                            | 5.0                            |
| 2-Chloronaphthalene        | ND               | ug/Kg   | 640                            | 5.0                            |
| 2,6-Dinitrotoluene         | ND               | ug/Kg   | 640                            | 5.0                            |
| 2-Nitrophenol              | ND               | ug/Kg   | 640                            | 5.0                            |
| 2,4-Dinitrophenol          | ND               | * ug/Kg | 640                            | 5.0                            |
| Acenaphthylene             | ND               | ug/Kg   | 640                            | 5.0                            |
| 2,4-Dinitrotoluene         | ND               | ug/Kg   | 640                            | 5.0                            |
| Acenaphthene               | ND               | * ug/Kg | 640                            | 5.0                            |
| Dibenzofuran               | ND               | ug/Kg   | 640                            | 5.0                            |
| 4-Nitrophenol              | ND               | * ug/Kg | 3200                           | 5.0                            |
| Fluorene                   | ND               | ug/Kg   | 640                            | 5.0                            |
| 4-Bromophenyl phenyl ether | ND               | ug/Kg   | 640                            | 5.0                            |
| Hexachlorobenzene          | ND               | ug/Kg   | 640                            | 5.0                            |
| Diethyl phthalate          | ND               | ug/Kg   | 640                            | 5.0                            |
| Pentachlorophenol          | ND               | ug/Kg   | 640                            | 5.0                            |
| Phenanthrene               | 1700             | ug/Kg   | 640                            | 5.0                            |
| Anthracene                 | ND               | * ug/Kg | 640                            | 5.0                            |
| Di-n-butyl phthalate       | ND               | ug/Kg   | 640                            | 5.0                            |
| Fluoranthene               | 3400             | ug/Kg   | 640                            | 5.0                            |
| Pyrene                     | 3500             | ug/Kg   | 640                            | 5.0                            |
| Butyl benzyl phthalate     | ND               | ug/Kg   | 640                            | 5.0                            |
| Benzo[a]anthracene         | 1200             | ug/Kg   | 640                            | 5.0                            |

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Job Number: 360-2767-1

**Client Sample ID: SED-3**

**Lab Sample ID: 360-2767-4**

Date Sampled: 04/14/2006 1000  
 Date Received: 04/17/2006 0955  
 Percent Solids: 25

| Analyte                        | Result/Qualifier               | Unit                           | RL                             | Dilution |
|--------------------------------|--------------------------------|--------------------------------|--------------------------------|----------|
| <b>Method: 8270C</b>           | Date Prepared: 04/17/2006 1635 | Date Analyzed: 04/18/2006 1113 |                                |          |
| Chrysene                       | 1700                           | ug/Kg                          | 640                            | 5.0      |
| 3,3'-Dichlorobenzidine         | ND                             | ug/Kg                          | 1300                           | 5.0      |
| Di-n-octyl phthalate           | ND                             | ug/Kg                          | 640                            | 5.0      |
| Benzo[b]fluoranthene           | 2000                           | ug/Kg                          | 640                            | 5.0      |
| Benzo[k]fluoranthene           | 900                            | ug/Kg                          | 640                            | 5.0      |
| Benzo[a]pyrene                 | 1500                           | ug/Kg                          | 640                            | 5.0      |
| Indeno[1,2,3-cd]pyrene         | 650                            | *                              | 640                            | 5.0      |
| Dibenz(a,h)anthracene          | ND                             | *                              | 640                            | 5.0      |
| Benzo[g,h,i]perylene           | ND                             | *                              | 640                            | 5.0      |
| Acetophenone                   | ND                             | ug/Kg                          | 640                            | 5.0      |
| Azobenzene                     | ND                             | *                              | 640                            | 5.0      |
| Dimethyl phthalate             | ND                             | ug/Kg                          | 640                            | 5.0      |
| Bis(2-ethylhexyl) phthalate    | 2100                           | ug/Kg                          | 640                            | 5.0      |
| 2,2'-oxybis[1-chloropropane]   | ND                             | ug/Kg                          | 640                            | 5.0      |
| Surrogate                      |                                |                                | Acceptance Limits              |          |
| 2,4,6-Tribromophenol           | 26                             | *                              | %                              | 30 - 130 |
| 2-Fluorobiphenyl               | 49                             |                                | %                              | 30 - 130 |
| 2-Fluorophenol                 | 49                             |                                | %                              | 30 - 130 |
| Nitrobenzene-d5                | 44                             |                                | %                              | 30 - 130 |
| Phenol-d5                      | 50                             |                                | %                              | 30 - 130 |
| Terphenyl-d14                  | 46                             |                                | %                              | 30 - 130 |
| <b>Method: PercentMoisture</b> | Date Prepared:                 |                                | Date Analyzed: 04/18/2006 1758 |          |
| Percent Moisture               | 75                             | %                              | 1.0                            | 1.0      |

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Job Number: 360-2767-1

**Client Sample ID:** B-6R(0-0.5)

**Lab Sample ID:** 360-2767-5

Date Sampled: 04/14/2006 1200  
 Date Received: 04/17/2006 0955  
 Percent Solids: 95

| Analyte                     | Result/Qualifier | Unit  | RL                             | Dilution |
|-----------------------------|------------------|-------|--------------------------------|----------|
| <b>Method:</b> 8260B        | Date Prepared:   |       | Date Analyzed: 04/18/2006 1218 |          |
| 1,1,1,2-Tetrachloroethane   | ND               | ug/Kg | 130                            | 1.0      |
| 1,1,1-Trichloroethane       | ND               | ug/Kg | 130                            | 1.0      |
| 1,1,2-Trichloroethane       | ND               | ug/Kg | 130                            | 1.0      |
| 1,1,2,2-Tetrachloroethane   | ND               | ug/Kg | 130                            | 1.0      |
| 1,1-Dichloroethane          | ND               | ug/Kg | 130                            | 1.0      |
| 1,1-Dichloroethene          | ND               | ug/Kg | 130                            | 1.0      |
| 1,1-Dichloropropene         | ND               | ug/Kg | 130                            | 1.0      |
| 1,2,3-Trichlorobenzene      | ND               | ug/Kg | 130                            | 1.0      |
| 1,2,3-Trichloropropane      | ND               | ug/Kg | 130                            | 1.0      |
| 1,2,4-Trichlorobenzene      | ND               | ug/Kg | 130                            | 1.0      |
| 1,2,4-Trimethylbenzene      | ND               | ug/Kg | 130                            | 1.0      |
| 1,2-Dibromo-3-Chloropropane | ND               | ug/Kg | 130                            | 1.0      |
| 1,2-Dichlorobenzene         | ND               | ug/Kg | 130                            | 1.0      |
| 1,2-Dichloroethane          | ND               | ug/Kg | 130                            | 1.0      |
| 1,2-Dichloropropane         | ND               | ug/Kg | 130                            | 1.0      |
| 1,3,5-Trimethylbenzene      | ND               | ug/Kg | 130                            | 1.0      |
| 1,3-Dichlorobenzene         | ND               | ug/Kg | 130                            | 1.0      |
| 1,4-Dichlorobenzene         | ND               | ug/Kg | 130                            | 1.0      |
| 1,4-Dioxane                 | ND               | ug/Kg | 13000                          | 1.0      |
| 2,2-Dichloropropane         | ND               | ug/Kg | 130                            | 1.0      |
| 2-Hexanone                  | ND               | ug/Kg | 1100                           | 1.0      |
| 4-Chlorotoluene             | ND               | ug/Kg | 130                            | 1.0      |
| 2-Chlorotoluene             | ND               | ug/Kg | 130                            | 1.0      |
| 4-Isopropyltoluene          | ND               | ug/Kg | 130                            | 1.0      |
| Acetone                     | ND *             | ug/Kg | 13000                          | 1.0      |
| Benzene                     | ND               | ug/Kg | 130                            | 1.0      |
| Bromobenzene                | ND               | ug/Kg | 130                            | 1.0      |
| Bromoform                   | ND               | ug/Kg | 130                            | 1.0      |
| Bromomethane                | ND *             | ug/Kg | 260                            | 1.0      |
| Carbon disulfide            | ND *             | ug/Kg | 130                            | 1.0      |
| Carbon tetrachloride        | ND               | ug/Kg | 130                            | 1.0      |
| Chlorobenzene               | ND               | ug/Kg | 130                            | 1.0      |
| Chlorobromomethane          | ND               | ug/Kg | 130                            | 1.0      |
| Chlorodibromomethane        | ND               | ug/Kg | 130                            | 1.0      |
| Chloroethane                | ND *             | ug/Kg | 260                            | 1.0      |
| Chloroform                  | ND               | ug/Kg | 130                            | 1.0      |
| Chloromethane               | ND               | ug/Kg | 260                            | 1.0      |
| cis-1,2-Dichloroethene      | ND               | ug/Kg | 130                            | 1.0      |
| cis-1,3-Dichloropropene     | ND               | ug/Kg | 130                            | 1.0      |
| Dibromomethane              | ND               | ug/Kg | 130                            | 1.0      |
| Dichlorobromomethane        | ND               | ug/Kg | 130                            | 1.0      |
| Dichlorodifluoromethane     | ND               | ug/Kg | 260                            | 1.0      |
| Ethyl ether                 | ND               | ug/Kg | 130                            | 1.0      |

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Job Number: 360-2767-1

**Client Sample ID:** B-6R(0-0.5)

**Lab Sample ID:** 360-2767-5

Date Sampled: 04/14/2006 1200  
 Date Received: 04/17/2006 0955  
 Percent Solids: 95

| Analyte                   | Result/Qualifier | Unit    | RL                             | Dilution |
|---------------------------|------------------|---------|--------------------------------|----------|
| <b>Method:</b> 8260B      | Date Prepared:   |         | Date Analyzed: 04/18/2006 1218 |          |
| Ethylbenzene              | 150              | ug/Kg   | 130                            | 1.0      |
| Ethylene Dibromide        | ND               | ug/Kg   | 130                            | 1.0      |
| Hexachlorobutadiene       | ND               | ug/Kg   | 130                            | 1.0      |
| m-Xylene & p-Xylene       | 660              | ug/Kg   | 130                            | 1.0      |
| Isopropylbenzene          | ND               | ug/Kg   | 130                            | 1.0      |
| Methyl Ethyl Ketone       | ND               | * ug/Kg | 1100                           | 1.0      |
| methyl isobutyl ketone    | ND               | ug/Kg   | 1100                           | 1.0      |
| Methyl tert-butyl ether   | ND               | ug/Kg   | 130                            | 1.0      |
| Methylene Chloride        | ND               | ug/Kg   | 260                            | 1.0      |
| n-Butylbenzene            | ND               | ug/Kg   | 130                            | 1.0      |
| N-Propylbenzene           | ND               | ug/Kg   | 130                            | 1.0      |
| Naphthalene               | ND               | ug/Kg   | 1300                           | 1.0      |
| o-Xylene                  | 260              | ug/Kg   | 130                            | 1.0      |
| Styrene                   | ND               | ug/Kg   | 130                            | 1.0      |
| Tert-amyl methyl ether    | ND               | ug/Kg   | 130                            | 1.0      |
| Tert-butyl ethyl ether    | ND               | ug/Kg   | 130                            | 1.0      |
| Tetrachloroethene         | ND               | ug/Kg   | 130                            | 1.0      |
| tert-Butylbenzene         | ND               | ug/Kg   | 130                            | 1.0      |
| Tetrahydrofuran           | ND               | ug/Kg   | 1100                           | 1.0      |
| Toluene                   | ND               | ug/Kg   | 130                            | 1.0      |
| trans-1,2-Dichloroethene  | ND               | ug/Kg   | 130                            | 1.0      |
| trans-1,3-Dichloropropene | ND               | ug/Kg   | 130                            | 1.0      |
| Trichloroethene           | ND               | ug/Kg   | 130                            | 1.0      |
| Trichlorofluoromethane    | ND               | ug/Kg   | 130                            | 1.0      |
| Vinyl chloride            | ND               | ug/Kg   | 260                            | 1.0      |
| 1,3-Dichloropropane       | ND               | ug/Kg   | 130                            | 1.0      |
| sec-Butylbenzene          | ND               | ug/Kg   | 130                            | 1.0      |
| Isopropyl ether           | ND               | ug/Kg   | 130                            | 1.0      |
| Surrogate                 |                  |         |                                |          |
| 1,2-Dichloroethane-d4     | 88               | %       | Acceptance Limits<br>70 - 130  |          |
| 4-Bromofluorobenzene      | 98               | %       | 70 - 130                       |          |
| Dibromofluoromethane      | 94               | %       | 70 - 130                       |          |
| Toluene-d8                | 97               | %       | 70 - 130                       |          |

|                         |                |                 |                |                 |
|-------------------------|----------------|-----------------|----------------|-----------------|
| <b>Method:</b> 8270C    | Date Prepared: | 04/17/2006 1635 | Date Analyzed: | 04/18/2006 1231 |
| Aniline                 | ND             | *               | ug/Kg          | 340             |
| Phenol                  | ND             |                 | ug/Kg          | 340             |
| Bis(2-chloroethyl)ether | ND             |                 | ug/Kg          | 340             |
| 1,3-Dichlorobenzene     | ND             |                 | ug/Kg          | 340             |
| 1,4-Dichlorobenzene     | ND             | *               | ug/Kg          | 340             |
| 1,2-Dichlorobenzene     | ND             | *               | ug/Kg          | 340             |

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Job Number: 360-2767-1

**Client Sample ID:** B-6R(0-0.5)

**Lab Sample ID:** 360-2767-5

Date Sampled: 04/14/2006 1200  
 Date Received: 04/17/2006 0955  
 Percent Solids: 95

| Analyte                    | Result/Qualifier | Unit  | RL   | Dilution |
|----------------------------|------------------|-------|------|----------|
| <b>Method:</b> 8270C       |                  |       |      |          |
| 2-Methylphenol             | ND               | ug/Kg | 340  | 10       |
| Hexachloroethane           | ND               | ug/Kg | 340  | 10       |
| 3 & 4 Methylphenol         | ND               | ug/Kg | 340  | 10       |
| 2-Chlorophenol             | ND               | ug/Kg | 340  | 10       |
| Nitrobenzene               | ND               | ug/Kg | 340  | 10       |
| Bis(2-chloroethoxy)methane | ND               | ug/Kg | 340  | 10       |
| 1,2,4-Trichlorobenzene     | ND *             | ug/Kg | 340  | 10       |
| Isophorone                 | ND               | ug/Kg | 340  | 10       |
| 2,4-Dimethylphenol         | ND               | ug/Kg | 340  | 10       |
| Hexachlorobutadiene        | ND *             | ug/Kg | 340  | 10       |
| Naphthalene                | ND               | ug/Kg | 340  | 10       |
| 2,4-Dichlorophenol         | ND               | ug/Kg | 340  | 10       |
| 4-Chloroaniline            | ND *             | ug/Kg | 680  | 10       |
| 2,4,6-Trichlorophenol      | ND               | ug/Kg | 340  | 10       |
| 2,4,5-Trichlorophenol      | ND *             | ug/Kg | 340  | 10       |
| 2-Methylnaphthalene        | ND               | ug/Kg | 340  | 10       |
| 2-Chloronaphthalene        | ND               | ug/Kg | 340  | 10       |
| 2,6-Dinitrotoluene         | ND               | ug/Kg | 340  | 10       |
| 2-Nitrophenol              | ND               | ug/Kg | 340  | 10       |
| 2,4-Dinitrophenol          | ND *             | ug/Kg | 340  | 10       |
| Acenaphthylene             | ND               | ug/Kg | 340  | 10       |
| 2,4-Dinitrotoluene         | ND               | ug/Kg | 340  | 10       |
| Acenaphthene               | ND *             | ug/Kg | 340  | 10       |
| Dibenzofuran               | ND               | ug/Kg | 340  | 10       |
| 4-Nitrophenol              | ND *             | ug/Kg | 1700 | 10       |
| Fluorene                   | ND               | ug/Kg | 340  | 10       |
| 4-Bromophenyl phenyl ether | ND               | ug/Kg | 340  | 10       |
| Hexachlorobenzene          | ND               | ug/Kg | 340  | 10       |
| Diethyl phthalate          | ND               | ug/Kg | 340  | 10       |
| Pentachlorophenol          | ND               | ug/Kg | 340  | 10       |
| Phenanthrene               | ND               | ug/Kg | 340  | 10       |
| Anthracene                 | ND *             | ug/Kg | 340  | 10       |
| Di-n-butyl phthalate       | ND               | ug/Kg | 340  | 10       |
| Fluoranthene               | ND               | ug/Kg | 340  | 10       |
| Pyrene                     | ND               | ug/Kg | 340  | 10       |
| Butyl benzyl phthalate     | ND               | ug/Kg | 340  | 10       |
| Benzo[a]anthracene         | ND               | ug/Kg | 340  | 10       |
| Chrysene                   | ND               | ug/Kg | 340  | 10       |
| 3,3'-Dichlorobenzidine     | ND               | ug/Kg | 680  | 10       |
| Di-n-octyl phthalate       | ND               | ug/Kg | 340  | 10       |
| Benzo[b]fluoranthene       | ND               | ug/Kg | 340  | 10       |
| Benzo[k]fluoranthene       | ND               | ug/Kg | 340  | 10       |
| Benzo[a]pyrene             | ND               | ug/Kg | 340  | 10       |

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Job Number: 360-2767-1

**Client Sample ID:** B-6R(0-0.5)

**Lab Sample ID:** 360-2767-5

Date Sampled: 04/14/2006 1200  
Date Received: 04/17/2006 0955  
Percent Solids: 95

| <b>Analyte</b>                 | <b>Result/Qualifier</b> | <b>Unit</b>     | <b>RL</b>         | <b>Dilution</b> |
|--------------------------------|-------------------------|-----------------|-------------------|-----------------|
| <b>Method:</b> 8270C           | Date Prepared:          | 04/17/2006 1635 | Date Analyzed:    | 04/18/2006 1231 |
| Indeno[1,2,3-cd]pyrene         | ND                      | * ug/Kg         | 340               | 10              |
| Dibenz(a,h)anthracene          | ND                      | * ug/Kg         | 340               | 10              |
| Benzo[g,h,i]perylene           | ND                      | * ug/Kg         | 340               | 10              |
| Acetophenone                   | ND                      | ug/Kg           | 340               | 10              |
| Azobenzene                     | ND                      | * ug/Kg         | 340               | 10              |
| Dimethyl phthalate             | ND                      | ug/Kg           | 340               | 10              |
| Bis(2-ethylhexyl) phthalate    | 790                     | ug/Kg           | 340               | 10              |
| 2,2'-oxybis[1-chloropropane]   | ND                      | ug/Kg           | 340               | 10              |
| Surrogate                      |                         |                 | Acceptance Limits |                 |
| 2,4,6-Tribromophenol           | 0                       | D *             | %                 | 30 - 130        |
| 2-Fluorobiphenyl               | 0                       | D *             | %                 | 30 - 130        |
| 2-Fluorophenol                 | 0                       | D *             | %                 | 30 - 130        |
| Nitrobenzene-d5                | 0                       | D *             | %                 | 30 - 130        |
| Phenol-d5                      | 0                       | D *             | %                 | 30 - 130        |
| Terphenyl-d14                  | 0                       | D *             | %                 | 30 - 130        |
| <b>Method:</b> PercentMoisture | Date Prepared:          |                 | Date Analyzed:    | 04/18/2006 1758 |
| Percent Moisture               | 5.3                     | %               | 1.0               | 1.0             |

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Job Number: 360-2767-1

**Client Sample ID: B-3R(0-0.5)**

**Lab Sample ID: 360-2767-6**

Date Sampled: 04/14/2006 1300  
 Date Received: 04/17/2006 0955  
 Percent Solids: 95

| Analyte                     | Result/Qualifier      | Unit  | RL                    | Dilution               |
|-----------------------------|-----------------------|-------|-----------------------|------------------------|
| <b>Method: 8260B</b>        | <b>Date Prepared:</b> |       | <b>Date Analyzed:</b> | <b>04/18/2006 1245</b> |
| 1,1,1,2-Tetrachloroethane   | ND                    | ug/Kg | 130                   | 1.0                    |
| 1,1,1-Trichloroethane       | ND                    | ug/Kg | 130                   | 1.0                    |
| 1,1,2-Trichloroethane       | ND                    | ug/Kg | 130                   | 1.0                    |
| 1,1,2,2-Tetrachloroethane   | ND                    | ug/Kg | 130                   | 1.0                    |
| 1,1-Dichloroethane          | ND                    | ug/Kg | 130                   | 1.0                    |
| 1,1-Dichloroethene          | ND                    | ug/Kg | 130                   | 1.0                    |
| 1,1-Dichloropropene         | ND                    | ug/Kg | 130                   | 1.0                    |
| 1,2,3-Trichlorobenzene      | ND                    | ug/Kg | 130                   | 1.0                    |
| 1,2,3-Trichloropropane      | ND                    | ug/Kg | 130                   | 1.0                    |
| 1,2,4-Trichlorobenzene      | ND                    | ug/Kg | 130                   | 1.0                    |
| 1,2,4-Trimethylbenzene      | ND                    | ug/Kg | 130                   | 1.0                    |
| 1,2-Dibromo-3-Chloropropane | ND                    | ug/Kg | 130                   | 1.0                    |
| 1,2-Dichlorobenzene         | ND                    | ug/Kg | 130                   | 1.0                    |
| 1,2-Dichloroethane          | ND                    | ug/Kg | 130                   | 1.0                    |
| 1,2-Dichloropropane         | ND                    | ug/Kg | 130                   | 1.0                    |
| 1,3,5-Trimethylbenzene      | ND                    | ug/Kg | 130                   | 1.0                    |
| 1,3-Dichlorobenzene         | ND                    | ug/Kg | 130                   | 1.0                    |
| 1,4-Dichlorobenzene         | ND                    | ug/Kg | 130                   | 1.0                    |
| 1,4-Dioxane                 | ND                    | ug/Kg | 13000                 | 1.0                    |
| 2,2-Dichloropropane         | ND                    | ug/Kg | 130                   | 1.0                    |
| 2-Hexanone                  | ND                    | ug/Kg | 1100                  | 1.0                    |
| 4-Chlorotoluene             | ND                    | ug/Kg | 130                   | 1.0                    |
| 2-Chlorotoluene             | ND                    | ug/Kg | 130                   | 1.0                    |
| 4-Isopropyltoluene          | ND                    | ug/Kg | 130                   | 1.0                    |
| Acetone                     | ND *                  | ug/Kg | 13000                 | 1.0                    |
| Benzene                     | ND                    | ug/Kg | 130                   | 1.0                    |
| Bromobenzene                | ND                    | ug/Kg | 130                   | 1.0                    |
| Bromoform                   | ND                    | ug/Kg | 130                   | 1.0                    |
| Bromomethane                | ND *                  | ug/Kg | 260                   | 1.0                    |
| Carbon disulfide            | ND *                  | ug/Kg | 130                   | 1.0                    |
| Carbon tetrachloride        | ND                    | ug/Kg | 130                   | 1.0                    |
| Chlorobenzene               | ND                    | ug/Kg | 130                   | 1.0                    |
| Chlorobromomethane          | ND                    | ug/Kg | 130                   | 1.0                    |
| Chlorodibromomethane        | ND                    | ug/Kg | 130                   | 1.0                    |
| Chloroethane                | ND *                  | ug/Kg | 260                   | 1.0                    |
| Chloroform                  | ND                    | ug/Kg | 130                   | 1.0                    |
| Chloromethane               | ND                    | ug/Kg | 260                   | 1.0                    |
| cis-1,2-Dichloroethene      | ND                    | ug/Kg | 130                   | 1.0                    |
| cis-1,3-Dichloropropene     | ND                    | ug/Kg | 130                   | 1.0                    |
| Dibromomethane              | ND                    | ug/Kg | 130                   | 1.0                    |
| Dichlorobromomethane        | ND                    | ug/Kg | 130                   | 1.0                    |
| Dichlorodifluoromethane     | ND                    | ug/Kg | 260                   | 1.0                    |
| Ethyl ether                 | ND                    | ug/Kg | 130                   | 1.0                    |

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Job Number: 360-2767-1

**Client Sample ID:** B-3R(0-0.5)

**Lab Sample ID:** 360-2767-6

Date Sampled: 04/14/2006 1300  
 Date Received: 04/17/2006 0955  
 Percent Solids: 95

| Analyte                   | Result/Qualifier | Unit  | RL                             | Dilution |
|---------------------------|------------------|-------|--------------------------------|----------|
| <b>Method:</b> 8260B      | Date Prepared:   |       | Date Analyzed: 04/18/2006 1245 |          |
| Ethylbenzene              | ND               | ug/Kg | 130                            | 1.0      |
| Ethylene Dibromide        | ND               | ug/Kg | 130                            | 1.0      |
| Hexachlorobutadiene       | ND               | ug/Kg | 130                            | 1.0      |
| m-Xylene & p-Xylene       | 430              | ug/Kg | 130                            | 1.0      |
| Isopropylbenzene          | ND               | ug/Kg | 130                            | 1.0      |
| Methyl Ethyl Ketone       | ND *             | ug/Kg | 1100                           | 1.0      |
| methyl isobutyl ketone    | ND               | ug/Kg | 1100                           | 1.0      |
| Methyl tert-butyl ether   | ND               | ug/Kg | 130                            | 1.0      |
| Methylene Chloride        | ND               | ug/Kg | 260                            | 1.0      |
| n-Butylbenzene            | ND               | ug/Kg | 130                            | 1.0      |
| N-Propylbenzene           | ND               | ug/Kg | 130                            | 1.0      |
| Naphthalene               | ND               | ug/Kg | 1300                           | 1.0      |
| o-Xylene                  | 180              | ug/Kg | 130                            | 1.0      |
| Styrene                   | ND               | ug/Kg | 130                            | 1.0      |
| Tert-amyl methyl ether    | ND               | ug/Kg | 130                            | 1.0      |
| Tert-butyl ethyl ether    | ND               | ug/Kg | 130                            | 1.0      |
| Tetrachloroethene         | ND               | ug/Kg | 130                            | 1.0      |
| tert-Butylbenzene         | ND               | ug/Kg | 130                            | 1.0      |
| Tetrahydrofuran           | ND               | ug/Kg | 1100                           | 1.0      |
| Toluene                   | ND               | ug/Kg | 130                            | 1.0      |
| trans-1,2-Dichloroethene  | ND               | ug/Kg | 130                            | 1.0      |
| trans-1,3-Dichloropropene | ND               | ug/Kg | 130                            | 1.0      |
| Trichloroethene           | ND               | ug/Kg | 130                            | 1.0      |
| Trichlorofluoromethane    | ND               | ug/Kg | 130                            | 1.0      |
| Vinyl chloride            | ND               | ug/Kg | 260                            | 1.0      |
| 1,3-Dichloropropane       | ND               | ug/Kg | 130                            | 1.0      |
| sec-Butylbenzene          | ND               | ug/Kg | 130                            | 1.0      |
| Isopropyl ether           | ND               | ug/Kg | 130                            | 1.0      |
| Surrogate                 |                  |       | Acceptance Limits              |          |
| 1,2-Dichloroethane-d4     | 89               | %     | 70 - 130                       |          |
| 4-Bromofluorobenzene      | 98               | %     | 70 - 130                       |          |
| Dibromofluoromethane      | 94               | %     | 70 - 130                       |          |
| Toluene-d8                | 96               | %     | 70 - 130                       |          |

|                         |                |                 |                |                 |
|-------------------------|----------------|-----------------|----------------|-----------------|
| <b>Method:</b> 8270C    | Date Prepared: | 04/17/2006 1635 | Date Analyzed: | 04/18/2006 1257 |
| Aniline                 | ND *           | ug/Kg           | 350            | 10              |
| Phenol                  | ND             | ug/Kg           | 350            | 10              |
| Bis(2-chloroethyl)ether | ND             | ug/Kg           | 350            | 10              |
| 1,3-Dichlorobenzene     | ND             | ug/Kg           | 350            | 10              |
| 1,4-Dichlorobenzene     | ND *           | ug/Kg           | 350            | 10              |
| 1,2-Dichlorobenzene     | ND *           | ug/Kg           | 350            | 10              |

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Job Number: 360-2767-1

**Client Sample ID:** B-3R(0-0.5)

**Lab Sample ID:** 360-2767-6

Date Sampled: 04/14/2006 1300  
 Date Received: 04/17/2006 0955  
 Percent Solids: 95

| Analyte                    | Result/Qualifier | Unit            | RL             | Dilution        |
|----------------------------|------------------|-----------------|----------------|-----------------|
| <b>Method:</b> 8270C       | Date Prepared:   | 04/17/2006 1635 | Date Analyzed: | 04/18/2006 1257 |
| 2-Methylphenol             | ND               | ug/Kg           | 350            | 10              |
| Hexachloroethane           | ND               | ug/Kg           | 350            | 10              |
| 3 & 4 Methylphenol         | ND               | ug/Kg           | 350            | 10              |
| 2-Chlorophenol             | ND               | ug/Kg           | 350            | 10              |
| Nitrobenzene               | ND               | ug/Kg           | 350            | 10              |
| Bis(2-chloroethoxy)methane | ND               | ug/Kg           | 350            | 10              |
| 1,2,4-Trichlorobenzene     | ND *             | ug/Kg           | 350            | 10              |
| Isophorone                 | ND               | ug/Kg           | 350            | 10              |
| 2,4-Dimethylphenol         | ND               | ug/Kg           | 350            | 10              |
| Hexachlorobutadiene        | ND *             | ug/Kg           | 350            | 10              |
| Naphthalene                | ND               | ug/Kg           | 350            | 10              |
| 2,4-Dichlorophenol         | ND               | ug/Kg           | 350            | 10              |
| 4-Chloroaniline            | ND *             | ug/Kg           | 690            | 10              |
| 2,4,6-Trichlorophenol      | ND               | ug/Kg           | 350            | 10              |
| 2,4,5-Trichlorophenol      | ND *             | ug/Kg           | 350            | 10              |
| 2-Methylnaphthalene        | ND               | ug/Kg           | 350            | 10              |
| 2-Chloronaphthalene        | ND               | ug/Kg           | 350            | 10              |
| 2,6-Dinitrotoluene         | ND               | ug/Kg           | 350            | 10              |
| 2-Nitrophenol              | ND               | ug/Kg           | 350            | 10              |
| 2,4-Dinitrophenol          | ND *             | ug/Kg           | 350            | 10              |
| Acenaphthylene             | ND               | ug/Kg           | 350            | 10              |
| 2,4-Dinitrotoluene         | ND               | ug/Kg           | 350            | 10              |
| Acenaphthene               | ND *             | ug/Kg           | 350            | 10              |
| Dibenzofuran               | ND               | ug/Kg           | 350            | 10              |
| 4-Nitrophenol              | ND *             | ug/Kg           | 1700           | 10              |
| Fluorene                   | ND               | ug/Kg           | 350            | 10              |
| 4-Bromophenyl phenyl ether | ND               | ug/Kg           | 350            | 10              |
| Hexachlorobenzene          | ND               | ug/Kg           | 350            | 10              |
| Diethyl phthalate          | ND               | ug/Kg           | 350            | 10              |
| Pentachlorophenol          | ND               | ug/Kg           | 350            | 10              |
| Phenanthrene               | ND               | ug/Kg           | 350            | 10              |
| Anthracene                 | ND *             | ug/Kg           | 350            | 10              |
| Di-n-butyl phthalate       | ND               | ug/Kg           | 350            | 10              |
| Fluoranthene               | ND               | ug/Kg           | 350            | 10              |
| Pyrene                     | ND               | ug/Kg           | 350            | 10              |
| Butyl benzyl phthalate     | ND               | ug/Kg           | 350            | 10              |
| Benzo[a]anthracene         | ND               | ug/Kg           | 350            | 10              |
| Chrysene                   | ND               | ug/Kg           | 350            | 10              |
| 3,3'-Dichlorobenzidine     | ND               | ug/Kg           | 690            | 10              |
| Di-n-octyl phthalate       | ND               | ug/Kg           | 350            | 10              |
| Benzo[b]fluoranthene       | ND               | ug/Kg           | 350            | 10              |
| Benzo[k]fluoranthene       | ND               | ug/Kg           | 350            | 10              |
| Benzo[a]pyrene             | ND               | ug/Kg           | 350            | 10              |

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Job Number: 360-2767-1

**Client Sample ID:** B-3R(0-0.5)

**Lab Sample ID:** 360-2767-6

Date Sampled: 04/14/2006 1300  
Date Received: 04/17/2006 0955  
Percent Solids: 95

| Analyte                        | Result/Qualifier | Unit            | RL                | Dilution        |
|--------------------------------|------------------|-----------------|-------------------|-----------------|
| <b>Method:</b> 8270C           | Date Prepared:   | 04/17/2006 1635 | Date Analyzed:    | 04/18/2006 1257 |
| Indeno[1,2,3-cd]pyrene         | ND               | * ug/Kg         | 350               | 10              |
| Dibenz(a,h)anthracene          | ND               | * ug/Kg         | 350               | 10              |
| Benzo[g,h,i]perylene           | ND               | * ug/Kg         | 350               | 10              |
| Acetophenone                   | ND               | ug/Kg           | 350               | 10              |
| Azobenzene                     | ND               | * ug/Kg         | 350               | 10              |
| Dimethyl phthalate             | ND               | ug/Kg           | 350               | 10              |
| Bis(2-ethylhexyl) phthalate    | 840              | ug/Kg           | 350               | 10              |
| 2,2'-oxybis[1-chloropropane]   | ND               | ug/Kg           | 350               | 10              |
| Surrogate                      |                  |                 | Acceptance Limits |                 |
| 2,4,6-Tribromophenol           | 0                | D *             | %                 | 30 - 130        |
| 2-Fluorobiphenyl               | 0                | D *             | %                 | 30 - 130        |
| 2-Fluorophenol                 | 0                | D *             | %                 | 30 - 130        |
| Nitrobenzene-d5                | 0                | D *             | %                 | 30 - 130        |
| Phenol-d5                      | 0                | D *             | %                 | 30 - 130        |
| Terphenyl-d14                  | 0                | D *             | %                 | 30 - 130        |
| <b>Method:</b> PercentMoisture | Date Prepared:   |                 | Date Analyzed:    | 04/18/2006 1758 |
| Percent Moisture               | 4.9              | %               | 1.0               | 1.0             |

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Job Number: 360-2767-1

**Client Sample ID:** Trip Blanks

**Lab Sample ID:** 360-2767-7

Date Sampled: 04/14/2006 1200  
 Date Received: 04/17/2006 0955

| Analyte                     | Result/Qualifier | Unit  | RL                             | Dilution |
|-----------------------------|------------------|-------|--------------------------------|----------|
| <b>Method:</b> 8260B        | Date Prepared:   |       | Date Analyzed: 04/18/2006 1313 |          |
| 1,1,1,2-Tetrachloroethane   | ND               | ug/Kg | 130                            | 1.0      |
| 1,1,1-Trichloroethane       | ND               | ug/Kg | 130                            | 1.0      |
| 1,1,2-Trichloroethane       | ND               | ug/Kg | 130                            | 1.0      |
| 1,1,2,2-Tetrachloroethane   | ND               | ug/Kg | 130                            | 1.0      |
| 1,1-Dichloroethane          | ND               | ug/Kg | 130                            | 1.0      |
| 1,1-Dichloroethene          | ND               | ug/Kg | 130                            | 1.0      |
| 1,1-Dichloropropene         | ND               | ug/Kg | 130                            | 1.0      |
| 1,2,3-Trichlorobenzene      | ND               | ug/Kg | 130                            | 1.0      |
| 1,2,3-Trichloropropane      | ND               | ug/Kg | 130                            | 1.0      |
| 1,2,4-Trichlorobenzene      | ND               | ug/Kg | 130                            | 1.0      |
| 1,2,4-Trimethylbenzene      | ND               | ug/Kg | 130                            | 1.0      |
| 1,2-Dibromo-3-Chloropropane | ND               | ug/Kg | 130                            | 1.0      |
| 1,2-Dichlorobenzene         | ND               | ug/Kg | 130                            | 1.0      |
| 1,2-Dichloroethane          | ND               | ug/Kg | 130                            | 1.0      |
| 1,2-Dichloropropane         | ND               | ug/Kg | 130                            | 1.0      |
| 1,3,5-Trimethylbenzene      | ND               | ug/Kg | 130                            | 1.0      |
| 1,3-Dichlorobenzene         | ND               | ug/Kg | 130                            | 1.0      |
| 1,4-Dichlorobenzene         | ND               | ug/Kg | 130                            | 1.0      |
| 1,4-Dioxane                 | ND               | ug/Kg | 13000                          | 1.0      |
| 2,2-Dichloropropane         | ND               | ug/Kg | 130                            | 1.0      |
| 2-Hexanone                  | ND               | ug/Kg | 1000                           | 1.0      |
| 4-Chlorotoluene             | ND               | ug/Kg | 130                            | 1.0      |
| 2-Chlorotoluene             | ND               | ug/Kg | 130                            | 1.0      |
| 4-Isopropyltoluene          | ND               | ug/Kg | 130                            | 1.0      |
| Acetone                     | ND               | ug/Kg | 13000                          | 1.0      |
| Benzene                     | ND               | ug/Kg | 130                            | 1.0      |
| Bromobenzene                | ND               | ug/Kg | 130                            | 1.0      |
| Bromoform                   | ND               | ug/Kg | 130                            | 1.0      |
| Bromomethane                | ND               | ug/Kg | 250                            | 1.0      |
| Carbon disulfide            | ND               | ug/Kg | 130                            | 1.0      |
| Carbon tetrachloride        | ND               | ug/Kg | 130                            | 1.0      |
| Chlorobenzene               | ND               | ug/Kg | 130                            | 1.0      |
| Chlorobromomethane          | ND               | ug/Kg | 130                            | 1.0      |
| Chlorodibromomethane        | ND               | ug/Kg | 130                            | 1.0      |
| Chloroethane                | ND               | ug/Kg | 250                            | 1.0      |
| Chloroform                  | ND               | ug/Kg | 130                            | 1.0      |
| Chloromethane               | ND               | ug/Kg | 250                            | 1.0      |
| cis-1,2-Dichloroethene      | ND               | ug/Kg | 130                            | 1.0      |
| cis-1,3-Dichloropropene     | ND               | ug/Kg | 130                            | 1.0      |
| Dibromomethane              | ND               | ug/Kg | 130                            | 1.0      |
| Dichlorobromomethane        | ND               | ug/Kg | 130                            | 1.0      |
| Dichlorodifluoromethane     | ND               | ug/Kg | 250                            | 1.0      |
| Ethyl ether                 | ND               | ug/Kg | 130                            | 1.0      |

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Job Number: 360-2767-1

**Client Sample ID:** Trip Blanks

**Lab Sample ID:** 360-2767-7

Date Sampled: 04/14/2006 1200  
 Date Received: 04/17/2006 0955

| Analyte                   | Result/Qualifier | Unit  | RL                             | Dilution |
|---------------------------|------------------|-------|--------------------------------|----------|
| <b>Method:</b> 8260B      | Date Prepared:   |       | Date Analyzed: 04/18/2006 1313 |          |
| Ethylbenzene              | ND               | ug/Kg | 130                            | 1.0      |
| Ethylene Dibromide        | ND               | ug/Kg | 130                            | 1.0      |
| Hexachlorobutadiene       | ND               | ug/Kg | 130                            | 1.0      |
| m-Xylene & p-Xylene       | ND               | ug/Kg | 130                            | 1.0      |
| Isopropylbenzene          | ND               | ug/Kg | 130                            | 1.0      |
| Methyl Ethyl Ketone       | ND               | ug/Kg | 1000                           | 1.0      |
| methyl isobutyl ketone    | ND               | ug/Kg | 1000                           | 1.0      |
| Methyl tert-butyl ether   | ND               | ug/Kg | 130                            | 1.0      |
| Methylene Chloride        | ND               | ug/Kg | 250                            | 1.0      |
| n-Butylbenzene            | ND               | ug/Kg | 130                            | 1.0      |
| N-Propylbenzene           | ND               | ug/Kg | 130                            | 1.0      |
| Naphthalene               | ND               | ug/Kg | 1300                           | 1.0      |
| o-Xylene                  | ND               | ug/Kg | 130                            | 1.0      |
| Styrene                   | ND               | ug/Kg | 130                            | 1.0      |
| Tert-amyl methyl ether    | ND               | ug/Kg | 130                            | 1.0      |
| Tert-butyl ethyl ether    | ND               | ug/Kg | 130                            | 1.0      |
| Tetrachloroethene         | ND               | ug/Kg | 130                            | 1.0      |
| tert-Butylbenzene         | ND               | ug/Kg | 130                            | 1.0      |
| Tetrahydrofuran           | ND               | ug/Kg | 1000                           | 1.0      |
| Toluene                   | ND               | ug/Kg | 130                            | 1.0      |
| trans-1,2-Dichloroethene  | ND               | ug/Kg | 130                            | 1.0      |
| trans-1,3-Dichloropropene | ND               | ug/Kg | 130                            | 1.0      |
| Trichloroethene           | ND               | ug/Kg | 130                            | 1.0      |
| Trichlorofluoromethane    | ND               | ug/Kg | 130                            | 1.0      |
| Vinyl chloride            | ND               | ug/Kg | 250                            | 1.0      |
| 1,3-Dichloropropane       | ND               | ug/Kg | 130                            | 1.0      |
| sec-Butylbenzene          | ND               | ug/Kg | 130                            | 1.0      |
| Isopropyl ether           | ND               | ug/Kg | 130                            | 1.0      |
|                           |                  |       |                                |          |
| Surrogate                 |                  |       | Acceptance Limits              |          |
| 1,2-Dichloroethane-d4     | 89               | %     | 70 - 130                       |          |
| 4-Bromofluorobenzene      | 98               | %     | 70 - 130                       |          |
| Dibromofluoromethane      | 94               | %     | 70 - 130                       |          |
| Toluene-d8                | 97               | %     | 70 - 130                       |          |

## DATA REPORTING QUALIFIERS

Client: Tighe & Bond

Job Number: 360-2767-1

| <b>Lab Section</b> | <b>Qualifier</b> | <b>Description</b>                                                                                                                                                   |
|--------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| GC/MS VOA          | *                | LCS, LCSD, MS, MSD, MD, or Surrogate exceeds the control limits                                                                                                      |
| GC/MS Semi VOA     | *                | LCS, LCSD, MS, MSD, MD, or Surrogate exceeds the control limits                                                                                                      |
|                    | D                | Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution will be flagged with a D. |

# **QUALITY CONTROL RESULTS**

# Quality Control Results

Client: Tighe & Bond

Job Number: 360-2767-1

## QC Association Summary

| Lab Sample ID                  | Client Sample ID            | Client Matrix | Method | Prep Batch |
|--------------------------------|-----------------------------|---------------|--------|------------|
| <b>GC/MS VOA</b>               |                             |               |        |            |
| <b>Analysis Batch:360-5288</b> |                             |               |        |            |
| LCS 360-5288/1                 | Lab Control Spike           | Solid         | 8260B  |            |
| LCSD 360-5288/2                | Lab Control Spike Duplicate | Solid         | 8260B  |            |
| MB 360-5288/3                  | Method Blank                | Solid         | 8260B  |            |
| 360-2767-5                     | B-6R(0-0.5)                 | Solid         | 8260B  |            |
| 360-2767-6                     | B-3R(0-0.5)                 | Solid         | 8260B  |            |
| 360-2767-7                     | Trip Blanks                 | Solid         | 8260B  |            |
| <b>GC/MS Semi VOA</b>          |                             |               |        |            |
| <b>Prep Batch: 360-5212</b>    |                             |               |        |            |
| LCS 360-5212/2-A               | Lab Control Spike           | Solid         | 3546   |            |
| LCSD 360-5212/3-A              | Lab Control Spike Duplicate | Solid         | 3546   |            |
| MB 360-5212/1-A                | Method Blank                | Solid         | 3546   |            |
| 360-2767-1                     | SED-4                       | Solid         | 3546   |            |
| 360-2767-4                     | SED-3                       | Solid         | 3546   |            |
| 360-2767-5                     | B-6R(0-0.5)                 | Solid         | 3546   |            |
| 360-2767-6                     | B-3R(0-0.5)                 | Solid         | 3546   |            |
| <b>Analysis Batch:360-5277</b> |                             |               |        |            |
| LCS 360-5212/2-A               | Lab Control Spike           | Solid         | 8270C  | 360-5212   |
| LCSD 360-5212/3-A              | Lab Control Spike Duplicate | Solid         | 8270C  | 360-5212   |
| MB 360-5212/1-A                | Method Blank                | Solid         | 8270C  | 360-5212   |
| 360-2767-1                     | SED-4                       | Solid         | 8270C  | 360-5212   |
| 360-2767-4                     | SED-3                       | Solid         | 8270C  | 360-5212   |
| 360-2767-5                     | B-6R(0-0.5)                 | Solid         | 8270C  | 360-5212   |
| 360-2767-6                     | B-3R(0-0.5)                 | Solid         | 8270C  | 360-5212   |

# Quality Control Results

Client: Tighe & Bond

Job Number: 360-2767-1

## QC Association Summary

| Lab Sample ID                  | Client Sample ID            | Client Matrix | Method          | Prep Batch |
|--------------------------------|-----------------------------|---------------|-----------------|------------|
| <b>Metals</b>                  |                             |               |                 |            |
| <b>Prep Batch: 360-5217</b>    |                             |               |                 |            |
| LCS 360-5217/2-A               | Lab Control Spike           | Solid         | 3050B           |            |
| LCSD 360-5217/3-A              | Lab Control Spike Duplicate | Solid         | 3050B           |            |
| MB 360-5217/1-A                | Method Blank                | Solid         | 3050B           |            |
| 360-2767-2                     | Background-1                | Solid         | 3050B           |            |
| 360-2767-2DU                   | Duplicate                   | Solid         | 3050B           |            |
| 360-2767-2MS                   | Matrix Spike                | Solid         | 3050B           |            |
| 360-2767-3                     | Background-2                | Solid         | 3050B           |            |
| <b>Analysis Batch:360-5280</b> |                             |               |                 |            |
| LCS 360-5217/2-A               | Lab Control Spike           | Solid         | 6020            | 360-5217   |
| LCSD 360-5217/3-A              | Lab Control Spike Duplicate | Solid         | 6020            | 360-5217   |
| MB 360-5217/1-A                | Method Blank                | Solid         | 6020            | 360-5217   |
| <b>Analysis Batch:360-5349</b> |                             |               |                 |            |
| 360-2767-2                     | Background-1                | Solid         | 6020            | 360-5217   |
| 360-2767-2DU                   | Duplicate                   | Solid         | 6020            | 360-5217   |
| 360-2767-2MS                   | Matrix Spike                | Solid         | 6020            | 360-5217   |
| 360-2767-3                     | Background-2                | Solid         | 6020            | 360-5217   |
| <b>General Chemistry</b>       |                             |               |                 |            |
| <b>Analysis Batch:360-5260</b> |                             |               |                 |            |
| 360-2767-1                     | SED-4                       | Solid         | PercentMoisture |            |
| 360-2767-2                     | Background-1                | Solid         | PercentMoisture |            |
| 360-2767-3                     | Background-2                | Solid         | PercentMoisture |            |
| 360-2767-4                     | SED-3                       | Solid         | PercentMoisture |            |
| 360-2767-5                     | B-6R(0-0.5)                 | Solid         | PercentMoisture |            |
| 360-2767-6                     | B-3R(0-0.5)                 | Solid         | PercentMoisture |            |

## Quality Control Results

Client: Tighe & Bond

Job Number: 360-2767-1

**Method Blank - Batch: 360-5288**

**Method: 8260B**

**Preparation: N/A**

Lab Sample ID: MB 360-5288/3  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 04/18/2006 1150  
Date Prepared: N/A

Analysis Batch: 360-5288  
Prep Batch: N/A  
Units: ug/Kg

Instrument ID: HP 5890/5972 GC/MS  
Lab File ID: V33182.D  
Initial Weight/Volume: 0.1 mL  
Final Weight/Volume: 25 mL

| Analyte                     | Result | Qual | RL    |
|-----------------------------|--------|------|-------|
| 1,1,1,2-Tetrachloroethane   | ND     |      | 130   |
| 1,1,1-Trichloroethane       | ND     |      | 130   |
| 1,1,2-Trichloroethane       | ND     |      | 130   |
| 1,1,2,2-Tetrachloroethane   | ND     |      | 130   |
| 1,1-Dichloroethane          | ND     |      | 130   |
| 1,1-Dichloroethene          | ND     |      | 130   |
| 1,1-Dichloropropene         | ND     |      | 130   |
| 1,2,3-Trichlorobenzene      | ND     |      | 130   |
| 1,2,3-Trichloropropane      | ND     |      | 130   |
| 1,2,4-Trichlorobenzene      | ND     |      | 130   |
| 1,2,4-Trimethylbenzene      | ND     |      | 130   |
| 1,2-Dibromo-3-Chloropropane | ND     |      | 130   |
| 1,2-Dichlorobenzene         | ND     |      | 130   |
| 1,2-Dichloroethane          | ND     |      | 130   |
| 1,2-Dichloropropane         | ND     |      | 130   |
| 1,3,5-Trimethylbenzene      | ND     |      | 130   |
| 1,3-Dichlorobenzene         | ND     |      | 130   |
| 1,4-Dichlorobenzene         | ND     |      | 130   |
| 1,4-Dioxane                 | ND     |      | 13000 |
| 2,2-Dichloropropane         | ND     |      | 130   |
| 2-Hexanone                  | ND     |      | 1000  |
| 4-Chlorotoluene             | ND     |      | 130   |
| 2-Chlorotoluene             | ND     |      | 130   |
| 4-Isopropyltoluene          | ND     |      | 130   |
| Acetone                     | ND     |      | 13000 |
| Benzene                     | ND     |      | 130   |
| Bromobenzene                | ND     |      | 130   |
| Bromoform                   | ND     |      | 130   |
| Bromomethane                | ND     |      | 250   |
| Carbon disulfide            | ND     |      | 130   |
| Carbon tetrachloride        | ND     |      | 130   |
| Chlorobenzene               | ND     |      | 130   |
| Chlorobromomethane          | ND     |      | 130   |
| Chlorodibromomethane        | ND     |      | 130   |
| Chloroethane                | ND     |      | 250   |
| Chloroform                  | ND     |      | 130   |
| Chloromethane               | ND     |      | 250   |
| cis-1,2-Dichloroethene      | ND     |      | 130   |
| cis-1,3-Dichloropropene     | ND     |      | 130   |
| Dibromomethane              | ND     |      | 130   |
| Dichlorobromomethane        | ND     |      | 130   |

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Tighe & Bond

Job Number: 360-2767-1

**Method Blank - Batch: 360-5288****Method: 8260B****Preparation: N/A**

Lab Sample ID: MB 360-5288/3  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 04/18/2006 1150  
Date Prepared: N/A

Analysis Batch: 360-5288  
Prep Batch: N/A  
Units: ug/Kg

Instrument ID: HP 5890/5972 GC/MS  
Lab File ID: V33182.D  
Initial Weight/Volume: 0.1 mL  
Final Weight/Volume: 25 mL

| Analyte                   | Result | Qual              | RL   |
|---------------------------|--------|-------------------|------|
| Dichlorodifluoromethane   | ND     |                   | 250  |
| Ethyl ether               | ND     |                   | 130  |
| Ethylbenzene              | ND     |                   | 130  |
| Ethylene Dibromide        | ND     |                   | 130  |
| Hexachlorobutadiene       | ND     |                   | 130  |
| m-Xylene & p-Xylene       | ND     |                   | 130  |
| Isopropylbenzene          | ND     |                   | 130  |
| Methyl Ethyl Ketone       | ND     |                   | 1000 |
| methyl isobutyl ketone    | ND     |                   | 1000 |
| Methyl tert-butyl ether   | ND     |                   | 130  |
| Methylene Chloride        | ND     |                   | 250  |
| n-Butylbenzene            | ND     |                   | 130  |
| N-Propylbenzene           | ND     |                   | 130  |
| Naphthalene               | ND     |                   | 1300 |
| o-Xylene                  | ND     |                   | 130  |
| Styrene                   | ND     |                   | 130  |
| Tert-amyl methyl ether    | ND     |                   | 130  |
| Tert-butyl ethyl ether    | ND     |                   | 130  |
| Tetrachloroethene         | ND     |                   | 130  |
| tert-Butylbenzene         | ND     |                   | 130  |
| Tetrahydrofuran           | ND     |                   | 1000 |
| Toluene                   | ND     |                   | 130  |
| trans-1,2-Dichloroethene  | ND     |                   | 130  |
| trans-1,3-Dichloropropene | ND     |                   | 130  |
| Trichloroethene           | ND     |                   | 130  |
| Trichlorofluoromethane    | ND     |                   | 130  |
| Vinyl chloride            | ND     |                   | 250  |
| 1,3-Dichloropropane       | ND     |                   | 130  |
| sec-Butylbenzene          | ND     |                   | 130  |
| Isopropyl ether           | ND     |                   | 130  |
| Surrogate                 | % Rec  | Acceptance Limits |      |
| 1,2-Dichloroethane-d4     | 92     | 70 - 130          |      |
| 4-Bromofluorobenzene      | 100    | 70 - 130          |      |
| Dibromofluoromethane      | 97     | 70 - 130          |      |
| Toluene-d8                | 99     | 70 - 130          |      |

Calculations are performed before rounding to avoid round-off errors in calculated results.

# Quality Control Results

Client: Tighe & Bond

Job Number: 360-2767-1

## Laboratory Control/ Laboratory Control Duplicate Recovery Report - Batch: 360-5288

**Method: 8260B**  
**Preparation: N/A**

|                                   |                          |                                   |
|-----------------------------------|--------------------------|-----------------------------------|
| LCS Lab Sample ID: LCS 360-5288/1 | Analysis Batch: 360-5288 | Instrument ID: HP 5890/5972 GC/MS |
| Client Matrix: Solid              | Prep Batch: N/A          | Lab File ID: V33179.D             |
| Dilution: 1.0                     | Units: ug/Kg             | Initial Weight/Volume: 0.1 mL     |
| Date Analyzed: 04/18/2006 1028    |                          | Final Weight/Volume: 25 mL        |
| Date Prepared: N/A                |                          |                                   |

|                                     |                          |                                   |
|-------------------------------------|--------------------------|-----------------------------------|
| LCSD Lab Sample ID: LCSD 360-5288/2 | Analysis Batch: 360-5288 | Instrument ID: HP 5890/5972 GC/MS |
| Client Matrix: Solid                | Prep Batch: N/A          | Lab File ID: V33180.D             |
| Dilution: 1.0                       | Units: ug/Kg             | Initial Weight/Volume: 0.1 mL     |
| Date Analyzed: 04/18/2006 1055      |                          | Final Weight/Volume: 25 mL        |
| Date Prepared: N/A                  |                          |                                   |

| Analyte                     | % Rec. |      | Limit    | RPD | RPD Limit | LCS Qual | LCSD Qual |
|-----------------------------|--------|------|----------|-----|-----------|----------|-----------|
|                             | LCS    | LCSD |          |     |           |          |           |
| 1,1,1,2-Tetrachloroethane   | 92     | 91   | 70 - 130 | 2   | 25        |          |           |
| 1,1,1-Trichloroethane       | 82     | 81   | 70 - 130 | 1   | 25        |          |           |
| 1,1,2-Trichloroethane       | 90     | 90   | 70 - 130 | 1   | 25        |          |           |
| 1,1,2,2-Tetrachloroethane   | 89     | 95   | 70 - 130 | 6   | 25        |          |           |
| 1,1-Dichloroethane          | 90     | 89   | 70 - 130 | 0   | 25        |          |           |
| 1,1-Dichloroethene          | 85     | 84   | 70 - 130 | 1   | 25        |          |           |
| 1,1-Dichloropropene         | 86     | 82   | 70 - 130 | 5   | 25        |          |           |
| 1,2,3-Trichlorobenzene      | 106    | 100  | 70 - 130 | 6   | 25        |          |           |
| 1,2,3-Trichloropropane      | 92     | 93   | 70 - 130 | 1   | 25        |          |           |
| 1,2,4-Trichlorobenzene      | 97     | 93   | 70 - 130 | 4   | 25        |          |           |
| 1,2,4-Trimethylbenzene      | 91     | 91   | 70 - 130 | 0   | 25        |          |           |
| 1,2-Dibromo-3-Chloropropane | 81     | 85   | 70 - 130 | 6   | 25        |          |           |
| 1,2-Dichlorobenzene         | 92     | 94   | 70 - 130 | 2   | 25        |          |           |
| 1,2-Dichloroethane          | 77     | 79   | 70 - 130 | 2   | 25        |          |           |
| 1,2-Dichloropropane         | 89     | 86   | 70 - 130 | 4   | 25        |          |           |
| 1,3,5-Trimethylbenzene      | 93     | 93   | 70 - 130 | 0   | 25        |          |           |
| 1,3-Dichlorobenzene         | 93     | 92   | 70 - 130 | 2   | 25        |          |           |
| 1,4-Dichlorobenzene         | 91     | 93   | 70 - 130 | 2   | 25        |          |           |
| 1,4-Dioxane                 | 101    | 96   | 70 - 130 | 5   | 25        |          |           |
| 2,2-Dichloropropane         | 83     | 84   | 70 - 130 | 1   | 25        |          |           |
| 2-Hexanone                  | 75     | 78   | 70 - 130 | 4   | 25        |          |           |
| 4-Chlorotoluene             | 94     | 93   | 70 - 130 | 1   | 25        |          |           |
| 2-Chlorotoluene             | 91     | 91   | 70 - 130 | 1   | 25        |          |           |
| 4-Isopropyltoluene          | 98     | 96   | 70 - 130 | 2   | 25        |          |           |
| Acetone                     | 57     | 58   | 70 - 130 | 3   | 25        | *        | *         |
| Benzene                     | 91     | 86   | 70 - 130 | 5   | 25        |          |           |
| Bromobenzene                | 96     | 93   | 70 - 130 | 3   | 25        |          |           |
| Bromoform                   | 97     | 98   | 70 - 130 | 1   | 25        |          |           |
| Bromomethane                | 69     | 70   | 70 - 130 | 2   | 25        | *        |           |
| Carbon disulfide            | 65     | 63   | 70 - 130 | 3   | 25        | *        | *         |
| Carbon tetrachloride        | 86     | 83   | 70 - 130 | 5   | 25        |          |           |
| Chlorobenzene               | 92     | 92   | 70 - 130 | 0   | 25        |          |           |

Calculations are performed before rounding to avoid round-off errors in calculated results.

# Quality Control Results

Client: Tighe & Bond

Job Number: 360-2767-1

## Laboratory Control/ Laboratory Control Duplicate Recovery Report - Batch: 360-5288

**Method: 8260B**  
**Preparation: N/A**

LCS Lab Sample ID: LCS 360-5288/1  
 Client Matrix: Solid  
 Dilution: 1.0  
 Date Analyzed: 04/18/2006 1028  
 Date Prepared: N/A

Analysis Batch: 360-5288  
 Prep Batch: N/A  
 Units: ug/Kg

Instrument ID: HP 5890/5972 GC/MS  
 Lab File ID: V33179.D  
 Initial Weight/Volume: 0.1 mL  
 Final Weight/Volume: 25 mL

LCSD Lab Sample ID: LCSD 360-5288/2  
 Client Matrix: Solid  
 Dilution: 1.0  
 Date Analyzed: 04/18/2006 1055  
 Date Prepared: N/A

Analysis Batch: 360-5288  
 Prep Batch: N/A  
 Units: ug/Kg

Instrument ID: HP 5890/5972 GC/MS  
 Lab File ID: V33180.D  
 Initial Weight/Volume: 0.1 mL  
 Final Weight/Volume: 25 mL

| Analyte                  | LCS | LCSD | % Rec. | Limit    | RPD | RPD Limit | LCS Qual | LCSD Qual |
|--------------------------|-----|------|--------|----------|-----|-----------|----------|-----------|
| Chlorobromomethane       | 92  | 92   |        | 70 - 130 | 1   | 25        |          |           |
| Chlorodibromomethane     | 92  | 91   |        | 70 - 130 | 1   | 25        |          |           |
| Chloroethane             | 21  | 20   |        | 70 - 130 | 6   | 25        | *        | *         |
| Chloroform               | 84  | 83   |        | 70 - 130 | 1   | 25        |          |           |
| Chloromethane            | 103 | 103  |        | 70 - 130 | 1   | 25        |          |           |
| cis-1,2-Dichloroethene   | 88  | 87   |        | 70 - 130 | 0   | 25        |          |           |
| cis-1,3-Dichloropropene  | 85  | 84   |        | 70 - 130 | 2   | 25        |          |           |
| Dibromomethane           | 84  | 86   |        | 70 - 130 | 2   | 25        |          |           |
| Dichlorobromomethane     | 79  | 78   |        | 70 - 130 | 1   | 25        |          |           |
| Dichlorodifluoromethane  | 104 | 107  |        | 70 - 130 | 3   | 25        |          |           |
| Ethyl ether              | 71  | 71   |        | 70 - 130 | 1   | 25        |          |           |
| Ethylbenzene             | 93  | 92   |        | 70 - 130 | 1   | 25        |          |           |
| Ethylene Dibromide       | 90  | 90   |        | 70 - 130 | 0   | 25        |          |           |
| Hexachlorobutadiene      | 112 | 99   |        | 70 - 130 | 12  | 25        |          |           |
| m-Xylene & p-Xylene      | 93  | 93   |        | 70 - 130 | 1   | 25        |          |           |
| Isopropylbenzene         | 100 | 101  |        | 70 - 130 | 1   | 25        |          |           |
| Methyl Ethyl Ketone      | 67  | 71   |        | 70 - 130 | 5   | 25        | *        |           |
| methyl isobutyl ketone   | 79  | 82   |        | 70 - 130 | 4   | 25        |          |           |
| Methyl tert-butyl ether  | 75  | 75   |        | 70 - 130 | 0   | 25        |          |           |
| Methylene Chloride       | 83  | 82   |        | 70 - 130 | 1   | 25        |          |           |
| n-Butylbenzene           | 94  | 96   |        | 70 - 130 | 2   | 25        |          |           |
| N-Propylbenzene          | 95  | 94   |        | 70 - 130 | 1   | 25        |          |           |
| Naphthalene              | 103 | 99   |        | 70 - 130 | 3   | 25        |          |           |
| o-Xylene                 | 93  | 92   |        | 70 - 130 | 0   | 25        |          |           |
| Styrene                  | 94  | 95   |        | 70 - 130 | 0   | 25        |          |           |
| Tert-amyl methyl ether   | 82  | 82   |        | 70 - 130 | 0   | 25        |          |           |
| Tert-butyl ethyl ether   | 88  | 88   |        | 70 - 130 | 1   | 25        |          |           |
| Tetrachloroethene        | 96  | 93   |        | 70 - 130 | 3   | 25        |          |           |
| tert-Butylbenzene        | 96  | 95   |        | 70 - 130 | 2   | 25        |          |           |
| Tetrahydrofuran          | 89  | 93   |        | 70 - 130 | 5   | 25        |          |           |
| Toluene                  | 90  | 89   |        | 70 - 130 | 1   | 25        |          |           |
| trans-1,2-Dichloroethene | 79  | 78   |        | 70 - 130 | 2   | 25        |          |           |

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Tighe & Bond

Job Number: 360-2767-1

### Laboratory Control/ Laboratory Control Duplicate Recovery Report - Batch: 360-5288

Method: 8260B  
Preparation: N/A

|                                   |                          |                                   |
|-----------------------------------|--------------------------|-----------------------------------|
| LCS Lab Sample ID: LCS 360-5288/1 | Analysis Batch: 360-5288 | Instrument ID: HP 5890/5972 GC/MS |
| Client Matrix: Solid              | Prep Batch: N/A          | Lab File ID: V33179.D             |
| Dilution: 1.0                     | Units: ug/Kg             | Initial Weight/Volume: 0.1 mL     |
| Date Analyzed: 04/18/2006 1028    |                          | Final Weight/Volume: 25 mL        |
| Date Prepared: N/A                |                          |                                   |

|                                     |                          |                                   |
|-------------------------------------|--------------------------|-----------------------------------|
| LCSD Lab Sample ID: LCSD 360-5288/2 | Analysis Batch: 360-5288 | Instrument ID: HP 5890/5972 GC/MS |
| Client Matrix: Solid                | Prep Batch: N/A          | Lab File ID: V33180.D             |
| Dilution: 1.0                       | Units: ug/Kg             | Initial Weight/Volume: 0.1 mL     |
| Date Analyzed: 04/18/2006 1055      |                          | Final Weight/Volume: 25 mL        |
| Date Prepared: N/A                  |                          |                                   |

| Analyte                   | % Rec.    |            | RPD               | RPD Limit | LCS Qual | LCSD Qual |
|---------------------------|-----------|------------|-------------------|-----------|----------|-----------|
|                           | LCS       | LCSD       |                   |           |          |           |
| trans-1,3-Dichloropropene | 87        | 88         | 70 - 130          | 1         | 25       |           |
| Trichloroethene           | 91        | 85         | 70 - 130          | 7         | 25       |           |
| Trichlorofluoromethane    | 80        | 70         | 70 - 130          | 12        | 25       |           |
| Vinyl chloride            | 98        | 99         | 70 - 130          | 0         | 25       |           |
| 1,3-Dichloropropane       | 90        | 90         | 70 - 130          | 0         | 25       |           |
| sec-Butylbenzene          | 95        | 95         | 70 - 130          | 0         | 25       |           |
| Isopropyl ether           | 82        | 82         | 70 - 130          | 0         | 25       |           |
| Surrogate                 | LCS % Rec | LCSD % Rec | Acceptance Limits |           |          |           |
| 1,2-Dichloroethane-d4     | 96        | 99         | 70 - 130          |           |          |           |
| 4-Bromofluorobenzene      | 106       | 106        | 70 - 130          |           |          |           |
| Dibromofluoromethane      | 100       | 101        | 70 - 130          |           |          |           |
| Toluene-d8                | 106       | 107        | 70 - 130          |           |          |           |

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Tighe & Bond

Job Number: 360-2767-1

### Method Blank - Batch: 360-5212

Lab Sample ID: MB 360-5212/1-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 04/18/2006 0928  
Date Prepared: 04/17/2006 1635

Analysis Batch: 360-5277  
Prep Batch: 360-5212  
Units: ug/Kg

### Method: 8270C Preparation: 3546

Instrument ID: Agilent 6890/5973 GC/MS  
Lab File ID: B4383.D  
Initial Weight/Volume: 30.0 g  
Final Weight/Volume: 1.0 mL  
Injection Volume:

| Analyte                    | Result | Qual | RL  |
|----------------------------|--------|------|-----|
| Aniline                    | ND     |      | 33  |
| Phenol                     | ND     |      | 33  |
| Bis(2-chloroethyl)ether    | ND     |      | 33  |
| 1,3-Dichlorobenzene        | ND     |      | 33  |
| 1,4-Dichlorobenzene        | ND     |      | 33  |
| 1,2-Dichlorobenzene        | ND     |      | 33  |
| 2-Methylphenol             | ND     |      | 33  |
| Hexachloroethane           | ND     |      | 33  |
| 3 & 4 Methylphenol         | ND     |      | 33  |
| 2-Chlorophenol             | ND     |      | 33  |
| Nitrobenzene               | ND     |      | 33  |
| Bis(2-chloroethoxy)methane | ND     |      | 33  |
| 1,2,4-Trichlorobenzene     | ND     |      | 33  |
| Isophorone                 | ND     |      | 33  |
| 2,4-Dimethylphenol         | ND     |      | 33  |
| Hexachlorobutadiene        | ND     |      | 33  |
| Naphthalene                | ND     |      | 33  |
| 2,4-Dichlorophenol         | ND     |      | 33  |
| 4-Chloroaniline            | ND     |      | 67  |
| 2,4,6-Trichlorophenol      | ND     |      | 33  |
| 2,4,5-Trichlorophenol      | ND     |      | 33  |
| 2-Methylnaphthalene        | ND     |      | 33  |
| 2-Chloronaphthalene        | ND     |      | 33  |
| 2,6-Dinitrotoluene         | ND     |      | 33  |
| 2-Nitrophenol              | ND     |      | 33  |
| 2,4-Dinitrophenol          | ND     |      | 33  |
| Acenaphthylene             | ND     |      | 33  |
| 2,4-Dinitrotoluene         | ND     |      | 33  |
| Acenaphthene               | ND     |      | 33  |
| Dibenzofuran               | ND     |      | 33  |
| 4-Nitrophenol              | ND     |      | 170 |
| Fluorene                   | ND     |      | 33  |
| 4-Bromophenyl phenyl ether | ND     |      | 33  |
| Hexachlorobenzene          | ND     |      | 33  |
| Diethyl phthalate          | ND     |      | 33  |
| Pentachlorophenol          | ND     |      | 33  |
| Phenanthrene               | ND     |      | 33  |
| Anthracene                 | ND     |      | 33  |
| Di-n-butyl phthalate       | ND     |      | 33  |
| Fluoranthene               | ND     |      | 33  |
| Pyrene                     | ND     |      | 33  |

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Tige & Bond

Job Number: 360-2767-1

### Method Blank - Batch: 360-5212

Lab Sample ID: MB 360-5212/1-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 04/18/2006 0928  
Date Prepared: 04/17/2006 1635

Analysis Batch: 360-5277  
Prep Batch: 360-5212  
Units: ug/Kg

### Method: 8270C Preparation: 3546

Instrument ID: Agilent 6890/5973 GC/MS  
Lab File ID: B4383.D  
Initial Weight/Volume: 30.0 g  
Final Weight/Volume: 1.0 mL  
Injection Volume:

| Analyte                      | Result | Qual | RL |
|------------------------------|--------|------|----|
| Butyl benzyl phthalate       | ND     |      | 33 |
| Benzo[a]anthracene           | ND     |      | 33 |
| Chrysene                     | ND     |      | 33 |
| 3,3'-Dichlorobenzidine       | ND     |      | 67 |
| Di-n-octyl phthalate         | ND     |      | 33 |
| Benzo[b]fluoranthene         | ND     |      | 33 |
| Benzo[k]fluoranthene         | ND     |      | 33 |
| Benzo[a]pyrene               | ND     |      | 33 |
| Indeno[1,2,3-cd]pyrene       | ND     |      | 33 |
| Dibenz(a,h)anthracene        | ND     |      | 33 |
| Benzo[g,h,i]perylene         | ND     |      | 33 |
| Acetophenone                 | ND     |      | 33 |
| Azobenzene                   | ND     |      | 33 |
| Dimethyl phthalate           | ND     |      | 33 |
| Bis(2-ethylhexyl) phthalate  | ND     |      | 33 |
| 2,2'-oxybis[1-chloropropane] | ND     |      | 33 |

| Surrogate            | % Rec | Acceptance Limits |
|----------------------|-------|-------------------|
| 2,4,6-Tribromophenol | 30    | 30 - 130          |
| 2-Fluorobiphenyl     | 65    | 30 - 130          |
| 2-Fluorophenol       | 64    | 30 - 130          |
| Nitrobenzene-d5      | 61    | 30 - 130          |
| Phenol-d5            | 68    | 30 - 130          |
| Terphenyl-d14        | 76    | 30 - 130          |

Calculations are performed before rounding to avoid round-off errors in calculated results.

# Quality Control Results

Client: Tighe & Bond

Job Number: 360-2767-1

## Laboratory Control/ Laboratory Control Duplicate Recovery Report - Batch: 360-5212

**Method: 8270C**  
**Preparation: 3546**

|                                     |                          |                                        |
|-------------------------------------|--------------------------|----------------------------------------|
| LCS Lab Sample ID: LCS 360-5212/2-A | Analysis Batch: 360-5277 | Instrument ID: Agilent 6890/5973 GC/MS |
| Client Matrix: Solid                | Prep Batch: 360-5212     | Lab File ID: B4384.D                   |
| Dilution: 1.0                       | Units: ug/Kg             | Initial Weight/Volume: 30.0 g          |
| Date Analyzed: 04/18/2006 0954      |                          | Final Weight/Volume: 1.0 mL            |
| Date Prepared: 04/17/2006 1635      |                          | Injection Volume:                      |

|                                       |                          |                                        |
|---------------------------------------|--------------------------|----------------------------------------|
| LCSD Lab Sample ID: LCSD 360-5212/3-A | Analysis Batch: 360-5277 | Instrument ID: Agilent 6890/5973 GC/MS |
| Client Matrix: Solid                  | Prep Batch: 360-5212     | Lab File ID: B4385.D                   |
| Dilution: 1.0                         | Units: ug/Kg             | Initial Weight/Volume: 30.0 g          |
| Date Analyzed: 04/18/2006 1020        |                          | Final Weight/Volume: 1.0 mL            |
| Date Prepared: 04/17/2006 1635        |                          | Injection Volume:                      |

| Analyte                    | % Rec. |      |          |     |           |   | LCS Qual | LCSD Qual |
|----------------------------|--------|------|----------|-----|-----------|---|----------|-----------|
|                            | LCS    | LCSD | Limit    | RPD | RPD Limit |   |          |           |
| Aniline                    | 42     | 37   | 40 - 140 | 12  | 30        |   | *        |           |
| Phenol                     | 54     | 48   | 30 - 130 | 11  | 30        |   |          |           |
| Bis(2-chloroethyl)ether    | 46     | 41   | 40 - 140 | 12  | 30        |   |          |           |
| 1,3-Dichlorobenzene        | 45     | 40   | 40 - 140 | 12  | 30        |   |          |           |
| 1,4-Dichlorobenzene        | 44     | 39   | 40 - 140 | 13  | 30        |   | *        |           |
| 1,2-Dichlorobenzene        | 44     | 39   | 40 - 140 | 11  | 30        |   | *        |           |
| 2-Methylphenol             | 51     | 46   | 30 - 130 | 11  | 30        |   |          |           |
| Hexachloroethane           | 44     | 40   | 40 - 140 | 12  | 30        |   |          |           |
| 3 & 4 Methylphenol         | 56     | 50   | 30 - 130 | 12  | 30        |   |          |           |
| 2-Chlorophenol             | 50     | 45   | 30 - 130 | 12  | 30        |   |          |           |
| Nitrobenzene               | 47     | 41   | 40 - 140 | 13  | 30        |   |          |           |
| Bis(2-chloroethoxy)methane | 48     | 43   | 40 - 140 | 13  | 30        |   |          |           |
| 1,2,4-Trichlorobenzene     | 42     | 37   | 40 - 140 | 13  | 30        |   | *        |           |
| Isophorone                 | 47     | 41   | 40 - 140 | 13  | 30        |   |          |           |
| 2,4-Dimethylphenol         | 56     | 48   | 30 - 130 | 14  | 30        |   |          |           |
| Hexachlorobutadiene        | 43     | 38   | 40 - 140 | 14  | 30        |   | *        |           |
| Naphthalene                | 49     | 43   | 40 - 140 | 13  | 30        |   |          |           |
| 2,4-Dichlorophenol         | 53     | 47   | 30 - 130 | 12  | 30        |   |          |           |
| 4-Chloroaniline            | 39     | 37   | 40 - 140 | 6   | 30        | * | *        |           |
| 2,4,6-Trichlorophenol      | 63     | 56   | 30 - 130 | 10  | 30        |   |          |           |
| 2,4,5-Trichlorophenol      | 39     | 26   | 30 - 130 | 39  | 30        |   | *        |           |
| 2-Methylnaphthalene        | 48     | 42   | 40 - 140 | 12  | 30        |   |          |           |
| 2-Chloronaphthalene        | 45     | 40   | 40 - 140 | 13  | 30        |   |          |           |
| 2,6-Dinitrotoluene         | 51     | 44   | 40 - 140 | 14  | 30        |   |          |           |
| 2-Nitrophenol              | 45     | 40   | 30 - 130 | 12  | 30        |   |          |           |
| 2,4-Dinitrophenol          | 21     | 16   | 30 - 130 | 27  | 30        | * | *        |           |
| Acenaphthylene             | 51     | 45   | 40 - 140 | 12  | 30        |   |          |           |
| 2,4-Dinitrotoluene         | 50     | 44   | 40 - 140 | 12  | 30        |   |          |           |
| Acenaphthene               | 44     | 38   | 40 - 140 | 14  | 30        |   | *        |           |
| Dibenzofuran               | 51     | 44   | 40 - 140 | 13  | 30        |   |          |           |
| 4-Nitrophenol              | 13     | 11   | 30 - 130 | 19  | 30        | * | *        |           |
| Fluorene                   | 47     | 42   | 40 - 140 | 13  | 30        |   |          |           |

Calculations are performed before rounding to avoid round-off errors in calculated results.

# Quality Control Results

Client: Tighe & Bond

Job Number: 360-2767-1

## Laboratory Control/ Laboratory Control Duplicate Recovery Report - Batch: 360-5212

**Method: 8270C**  
**Preparation: 3546**

LCS Lab Sample ID: LCS 360-5212/2-A  
 Client Matrix: Solid  
 Dilution: 1.0  
 Date Analyzed: 04/18/2006 0954  
 Date Prepared: 04/17/2006 1635

Analysis Batch: 360-5277  
 Prep Batch: 360-5212  
 Units: ug/Kg

Instrument ID: Agilent 6890/5973 GC/MS  
 Lab File ID: B4384.D  
 Initial Weight/Volume: 30.0 g  
 Final Weight/Volume: 1.0 mL  
 Injection Volume:

LCSD Lab Sample ID: LCSD 360-5212/3-A  
 Client Matrix: Solid  
 Dilution: 1.0  
 Date Analyzed: 04/18/2006 1020  
 Date Prepared: 04/17/2006 1635

Analysis Batch: 360-5277  
 Prep Batch: 360-5212  
 Units: ug/Kg

Instrument ID: Agilent 6890/5973 GC/MS  
 Lab File ID: B4385.D  
 Initial Weight/Volume: 30.0 g  
 Final Weight/Volume: 1.0 mL  
 Injection Volume:

| Analyte                      | % Rec. |      | RPD      | RPD Limit | LCS Qual | LCSD Qual |
|------------------------------|--------|------|----------|-----------|----------|-----------|
|                              | LCS    | LCSD | Limit    |           |          |           |
| 4-Bromophenyl phenyl ether   | 48     | 43   | 40 - 140 | 11        | 30       |           |
| Hexachlorobenzene            | 51     | 46   | 40 - 140 | 12        | 30       |           |
| Diethyl phthalate            | 49     | 43   | 40 - 140 | 13        | 30       |           |
| Pentachlorophenol            | 52     | 51   | 30 - 130 | 2         | 30       |           |
| Phenanthrene                 | 53     | 46   | 40 - 140 | 13        | 30       |           |
| Anthracene                   | 42     | 36   | 40 - 140 | 14        | 30       | *         |
| Di-n-butyl phthalate         | 57     | 50   | 40 - 140 | 13        | 30       |           |
| Fluoranthene                 | 48     | 43   | 40 - 140 | 11        | 30       |           |
| Pyrene                       | 56     | 54   | 40 - 140 | 5         | 30       |           |
| Butyl benzyl phthalate       | 58     | 59   | 40 - 140 | 2         | 30       |           |
| Benzo[a]anthracene           | 47     | 44   | 40 - 140 | 5         | 30       |           |
| Chrysene                     | 53     | 49   | 40 - 140 | 8         | 30       |           |
| 3,3'-Dichlorobenzidine       | 62     | 58   | 40 - 140 | 7         | 30       |           |
| Di-n-octyl phthalate         | 72     | 61   | 40 - 140 | 17        | 30       |           |
| Benzo[b]fluoranthene         | 49     | 40   | 40 - 140 | 21        | 30       |           |
| Benzo[k]fluoranthene         | 53     | 48   | 40 - 140 | 10        | 30       |           |
| Benzo[a]pyrene               | 49     | 43   | 40 - 140 | 13        | 30       |           |
| Indeno[1,2,3-cd]pyrene       | 39     | 32   | 40 - 140 | 19        | 30       | *         |
| Dibenz(a,h)anthracene        | 38     | 32   | 40 - 140 | 18        | 30       | *         |
| Benzo[g,h,i]perylene         | 37     | 30   | 40 - 140 | 20        | 30       | *         |
| Acetophenone                 | 54     | 48   | 40 - 140 | 12        | 30       |           |
| Azobenzene                   | 22     | 28   | 40 - 140 | 23        | 30       | *         |
| Dimethyl phthalate           | 49     | 44   | 40 - 140 | 12        | 30       |           |
| Bis(2-ethylhexyl) phthalate  | 68     | 63   | 40 - 140 | 6         | 30       |           |
| 2,2'-oxybis[1-chloropropane] | 46     | 41   | 40 - 140 | 11        | 30       |           |

| Surrogate            | LCS % Rec | LCSD % Rec | Acceptance Limits |
|----------------------|-----------|------------|-------------------|
| 2,4,6-Tribromophenol | 29        | *          | 28                |
| 2-Fluorobiphenyl     | 57        | 55         | 30 - 130          |
| 2-Fluorophenol       | 55        | 54         | 30 - 130          |
| Nitrobenzene-d5      | 63        | 61         | 30 - 130          |
| Phenol-d5            | 58        | 57         | 30 - 130          |

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Tighe & Bond

Job Number: 360-2767-1

| Surrogate     | LCS % Rec | LCSD % Rec | Acceptance Limits |
|---------------|-----------|------------|-------------------|
| Terphenyl-d14 | 57        | 67         | 30 - 130          |

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Tige & Bond

Job Number: 360-2767-1

### Method Blank - Batch: 360-5217

Lab Sample ID: MB 360-5217/1-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 04/18/2006 1738  
Date Prepared: 04/18/2006 0901

Analysis Batch: 360-5280  
Prep Batch: 360-5217  
Units: ug/Kg

**Method: 6020**  
**Preparation: 3050B**

Instrument ID: Perkin Elmer Elan 6100PE  
Lab File ID: N/A  
Initial Weight/Volume: 1.82 g  
Final Weight/Volume: 100 mL

| Analyte | Result | Qual | RL |
|---------|--------|------|----|
| Arsenic | ND     |      | 55 |

### Laboratory Control/ Laboratory Control Duplicate Recovery Report - Batch: 360-5217

LCS Lab Sample ID: LCS 360-5217/2-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 04/18/2006 1740  
Date Prepared: 04/18/2006 0901

Analysis Batch: 360-5280  
Prep Batch: 360-5217  
Units: ug/Kg

**Method: 6020**  
**Preparation: 3050B**

Instrument ID: Perkin Elmer Elan 6100PE  
Lab File ID: N/A  
Initial Weight/Volume: 1.94 g  
Final Weight/Volume: 100 mL

LCSD Lab Sample ID: LCSD 360-5217/3-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 04/18/2006 1742  
Date Prepared: 04/18/2006 0901

Analysis Batch: 360-5280  
Prep Batch: 360-5217  
Units: ug/Kg

Instrument ID: Perkin Elmer Elan 6100P  
Lab File ID: N/A  
Initial Weight/Volume: 1.94 g  
Final Weight/Volume: 100 mL

| Analyte | % Rec. |      | Limit    | RPD | RPD Limit | LCS Qual | LCSD Qual |
|---------|--------|------|----------|-----|-----------|----------|-----------|
|         | LCS    | LCSD |          |     |           |          |           |
| Arsenic | 93     | 97   | 80 - 120 | 4   | 30        |          |           |

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Tige & Bond

Job Number: 360-2767-1

### Matrix Spike - Batch: 360-5217

**Method: 6020**  
**Preparation: 3050B**

Lab Sample ID: 360-2767-2  
Client Matrix: Solid  
Dilution: 20  
Date Analyzed: 04/20/2006 1441  
Date Prepared: 04/18/2006 0901

Analysis Batch: 360-5349  
Prep Batch: 360-5217  
Units: ug/Kg

Instrument ID: Perkin Elmer Elan 6100PE  
Lab File ID: N/A  
Initial Weight/Volume: 1.74 g  
Final Weight/Volume: 100 mL

| Analyte | Sample Result/Qual | Spike Amount | Result | % Rec. | Limit    | Qual |
|---------|--------------------|--------------|--------|--------|----------|------|
| Arsenic | 1800               | 3800         | 4900   | 83     | 75 - 125 |      |

### Matrix Duplicate - Batch: 360-5217

**Method: 6020**  
**Preparation: 3050B**

Lab Sample ID: 360-2767-2  
Client Matrix: Solid  
Dilution: 20  
Date Analyzed: 04/20/2006 1439  
Date Prepared: 04/18/2006 0901

Analysis Batch: 360-5349  
Prep Batch: 360-5217  
Units: ug/Kg

Instrument ID: Perkin Elmer Elan 6100PE  
Lab File ID: N/A  
Initial Weight/Volume: 1.74 g  
Final Weight/Volume: 100 mL

| Analyte | Sample Result/Qual | Result | RPD | Limit | Qual |
|---------|--------------------|--------|-----|-------|------|
| Arsenic | 1800               | 1700   | 8   | 35    |      |

Calculations are performed before rounding to avoid round-off errors in calculated results.

## LOGIN SAMPLE RECEIPT CHECK LIST

Client: Tighe & Bond

Job Number: 360-2767-1

**Login Number: 2767**

| Question                                                                         | T/F/NA | Comment                                                           |
|----------------------------------------------------------------------------------|--------|-------------------------------------------------------------------|
| Radioactivity either was not measured or, if measured, is at or below background | NA     |                                                                   |
| The cooler's custody seal, if present, is intact.                                | NA     |                                                                   |
| The cooler or samples do not appear to have been compromised or tampered with.   | True   |                                                                   |
| Samples were received on ice.                                                    | True   |                                                                   |
| Cooler Temperature is acceptable.                                                | True   |                                                                   |
| Cooler Temperature is recorded.                                                  | True   |                                                                   |
| COC is present.                                                                  | True   |                                                                   |
| COC is filled out in ink and legible.                                            | True   |                                                                   |
| COC is filled out with all pertinent information.                                | True   |                                                                   |
| There are no discrepancies between the sample IDs on the containers and the COC. | True   |                                                                   |
| Samples are received within Holding Time.                                        | True   |                                                                   |
| Sample containers have legible labels.                                           | True   |                                                                   |
| Containers are not broken or leaking.                                            | True   |                                                                   |
| Sample collection date/times are provided.                                       | False  | Sample 7 date & time not filled out; used default of 4/14/06 1200 |
| Appropriate sample containers are used.                                          | True   |                                                                   |
| Sample bottles are completely filled.                                            | True   |                                                                   |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True   |                                                                   |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.     | True   |                                                                   |
| If necessary, staff have been informed of any short hold time or quick TAT needs | True   |                                                                   |
| Multiphasic samples are not present.                                             | True   |                                                                   |
| Samples do not require splitting or compositing.                                 | True   |                                                                   |

## Severn Trent Laboratories, Inc.

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## Chain of Custody Form

• 53 Southampton Road  
Westfield, MA 01085  
(P) 413-572-4000  
(F) 413-572-3707

• 149 Rangeway Road  
N. Billerica, MA 01862  
(P) 978-667-1400  
(F) 978-667-7871

STL Westfield

STL Billerica / Service Center

| Client: <u>Tighe + Bond</u>                                                                                                                          | Project #: <u>B-360</u>                                                    | Job #: <u>Q107</u>                                                                                                                                                                                                                                                                                                                                             | Quote#                                                                                 | PO#                                                                                                                                                                                        |                   |                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Address: <u>130 Southampton Rd</u><br><u>Westfield MA 01085</u>                                                                                      | Project Manager: <u>Paul Beaulieu</u>                                      | <b>Shaded areas for office use</b><br><b>Analysis Requested</b><br>Check analysis and specify method and analytes in comments section.<br>For example:<br>500-series for drinking water<br>600-series for waste water, NPDES<br>800-series for groundwater, soil, waste<br>8000-series for groundwater, soil, waste<br>Use comments section to further define. |                                                                                        |                                                                                                                                                                                            |                   |                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Phone: <u>572-3258 Fax 572-9764</u>                                                                                                                  | Work ID: <u>VS Tsubaki</u>                                                 |                                                                                                                                                                                                                                                                                                                                                                |                                                                                        |                                                                                                                                                                                            |                   |                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Requested Turnaround Time (PLEASE SPECIFY)                                                                                                           |                                                                            | Regulatory Classification                                                                                                                                                                                                                                                                                                                                      | Special Report Format                                                                  | Comments (Special Instructions)                                                                                                                                                            |                   |                                                                                                                                                                                                                                                                                                                                                                                                                        |
| STANDARD                                                                                                                                             | RUSH <input checked="" type="checkbox"/> 48 hrs<br>(Lab Approval Required) | NPDES _____ Drinking Water<br>RCRA _____ MCP GW1 <input checked="" type="checkbox"/><br>Other _____                                                                                                                                                                                                                                                            | QA/QC Report<br>DQE (MCP) Rpt <input checked="" type="checkbox"/><br>DEP Form(s) _____ | Please print legibility. If the analytical requests are not clearly defined on the chain-of-custody, the turnaround time will begin after all questions have been satisfactorily answered. |                   |                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Sample Type Codes<br>WW-Wastewater DW-Drinking water SW-Surface water<br>LW-Lab water GW-Groundwater A-Air<br>S-Solid / Soil SL-Sludge O-Oil Z-Other |                                                                            | Date                                                                                                                                                                                                                                                                                                                                                           | Preservative                                                                           |                                                                                                                                                                                            |                   |                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Sample ID                                                                                                                                            | Sample Type                                                                | Sampler's Initials                                                                                                                                                                                                                                                                                                                                             | Date Collected                                                                         | Grab Comp.                                                                                                                                                                                 | # Containers      | Plastic(P) or Glass(G)<br>NaHSO4/MeOH<br>HNO3 to pH <2<br>H2SO4 to pH <2<br>HCl to pH <2<br>NaOH to pH >12<br>Na2S2O3<br>Volatile 524 / 624 / 8260<br>Volatile 601 / 602 / 8021<br>Semivola 525 / 625 / 8270<br>PCB / Pest / Herbicide<br>EPH / VPH<br>DRO / GRO / ETPH<br>Metals 6010 / 200.7<br>Mercury 245.1 / 7470-71<br>General Chemistry<br>Bacteriological<br>Toxicity<br>Oil & Grease / TOC<br>Radchem / Other |
| PED-4                                                                                                                                                | S MGW                                                                      | 4/14/06<br>0915                                                                                                                                                                                                                                                                                                                                                | X                                                                                      | 1 G                                                                                                                                                                                        |                   |                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Background - 1                                                                                                                                       | S MGW                                                                      | 4/14/06<br>0930                                                                                                                                                                                                                                                                                                                                                | X                                                                                      | 1 G                                                                                                                                                                                        |                   |                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Background - 2                                                                                                                                       | S MGW                                                                      | 4/14/06<br>0945                                                                                                                                                                                                                                                                                                                                                | X                                                                                      | 1 G                                                                                                                                                                                        |                   |                                                                                                                                                                                                                                                                                                                                                                                                                        |
| PED-3                                                                                                                                                | S MGW                                                                      | 4/14/06<br>1000                                                                                                                                                                                                                                                                                                                                                | X                                                                                      | 1 G                                                                                                                                                                                        |                   |                                                                                                                                                                                                                                                                                                                                                                                                                        |
| B-6R(0-0.5)                                                                                                                                          | S MGW                                                                      | 4/14/06<br>1200                                                                                                                                                                                                                                                                                                                                                | X                                                                                      | 1 G X                                                                                                                                                                                      |                   |                                                                                                                                                                                                                                                                                                                                                                                                                        |
| B-3R(0-0.5)                                                                                                                                          | S MGW                                                                      | 4/14/06<br>1300                                                                                                                                                                                                                                                                                                                                                | X                                                                                      | 4 G X                                                                                                                                                                                      |                   |                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Trip Blanks                                                                                                                                          |                                                                            |                                                                                                                                                                                                                                                                                                                                                                | X                                                                                      | 3 G X                                                                                                                                                                                      |                   |                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <i>(Signature: MGW 4/14/06)</i>                                                                                                                      |                                                                            |                                                                                                                                                                                                                                                                                                                                                                |                                                                                        |                                                                                                                                                                                            |                   |                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Sampled by (print): <u>Matthew Wagner</u>                                                                                                            | Signature: <u>Matthew Wagner</u>                                           |                                                                                                                                                                                                                                                                                                                                                                |                                                                                        |                                                                                                                                                                                            |                   | Cooler? <input checked="" type="checkbox"/> Y N<br>MADEP Requirement<br>Samples iced? <input checked="" type="checkbox"/> Y N                                                                                                                                                                                                                                                                                          |
| Relinquished by: <u>Matthew Wagner</u>                                                                                                               | Date: <u>4/17/06</u>                                                       | Time: <u>0955</u>                                                                                                                                                                                                                                                                                                                                              | Received by: <u>None</u>                                                               | Date: <u>4/17/06</u>                                                                                                                                                                       | Time: <u>0955</u> | Temp @ receipt: <u>41.8</u> °C                                                                                                                                                                                                                                                                                                                                                                                         |
| Relinquished by:                                                                                                                                     | Date:                                                                      | Time:                                                                                                                                                                                                                                                                                                                                                          | Received by:                                                                           | Date:                                                                                                                                                                                      | Time:             | Preservation / pH checked? <input checked="" type="checkbox"/> Y N                                                                                                                                                                                                                                                                                                                                                     |
| Relinquished by:                                                                                                                                     | Date:                                                                      | Time:                                                                                                                                                                                                                                                                                                                                                          | Received by:                                                                           | Date:                                                                                                                                                                                      | Time:             | By: _____ Date: _____                                                                                                                                                                                                                                                                                                                                                                                                  |

STL WESTFIELD

Page 1 of 1

White = Lab file Yellow = Report copy Pink = Customer copy

STL-8245 (1000)